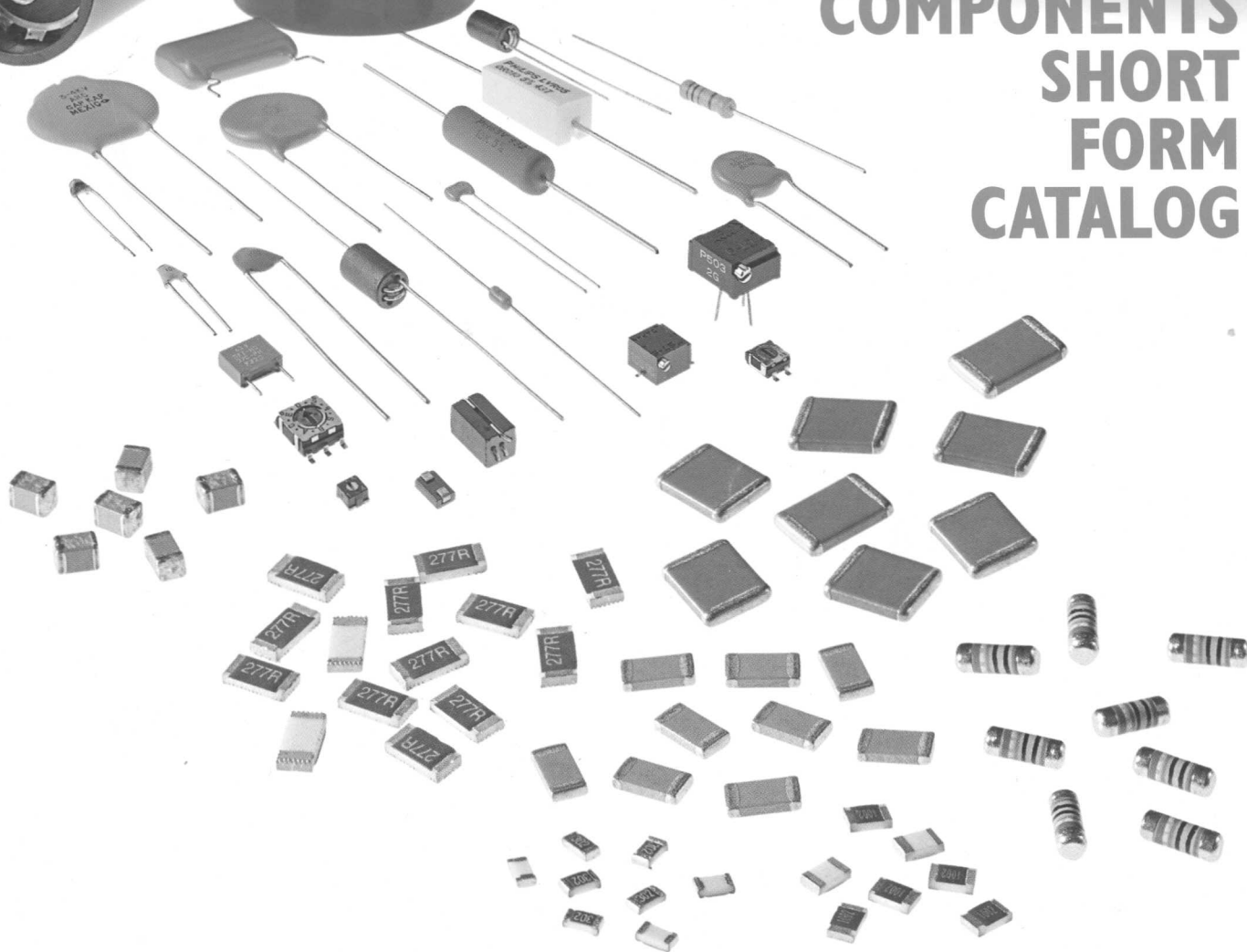




PHILIPS COMPONENTS SHORT FORM CATALOG



Philips
Components



PHILIPS

Mission Statement



Our mission is to be our customers' "Partners of Choice"
by providing quality services and electronic components.

The employees of Philips Components are our most valuable resource.

We will provide the training and environment necessary to accomplish our mission,
thus ensuring our success as a profitable business.



Robert W. Chlebek

Robert W. Chlebek
President

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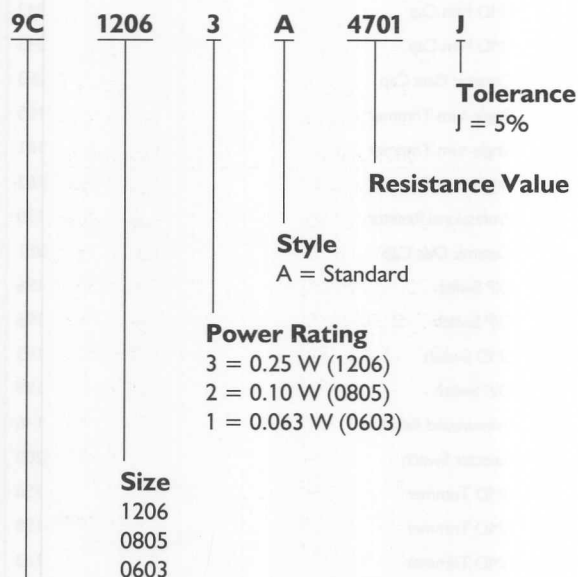
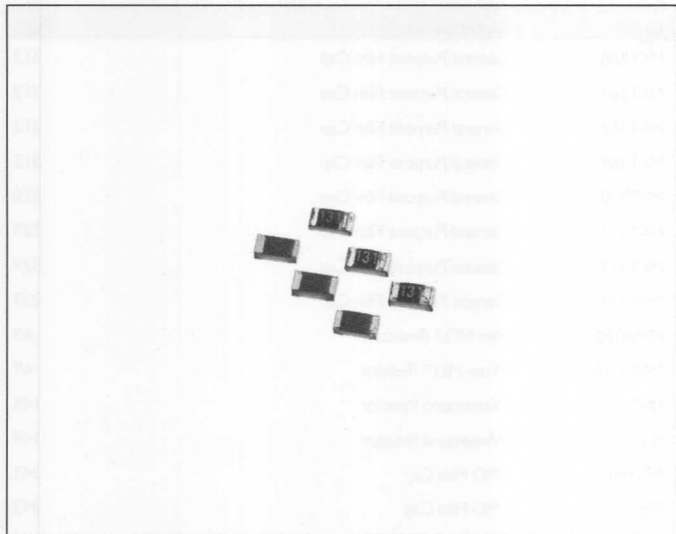
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Surface Mount Resistor Chip Series 9C ... J

PHILIPS



Standard Chip Resistor

Marking

Parts marked with resistance value

Packaging

Tape & Reel - 5,000 piece reels

Standard Resistor Chip Series 9C ... J

1206, 0805, & 0603 size

5% Tolerance

High Reliability

Improved Performance at High Frequencies

Zero ohm jumper also available.

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
9C1206	0.25	1R-10M	±200	5
9C0805	0.10	1R-10M	±200	5
9C0603	0.063	1R-10R 10R-1M 1M-6.8M	-200/+500 ±200 ±300	5

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1 OHM	1/16W	5%	-200/+500 ppm	9C06031A1R00J	Tape & Reel
1.1 OHM	1/16W	5%	-200/+500 ppm	9C06031A1R10J	Tape & Reel
1.2 OHM	1/16W	5%	-200/+500 ppm	9C06031A1R20J	Tape & Reel
1.3 OHM	1/16W	5%	-200/+500 ppm	9C06031A1R30J	Tape & Reel
1.5 OHM	1/16W	5%	-200/+500 ppm	9C06031A1R50J	Tape & Reel
1.6 OHM	1/16W	5%	-200/+500 ppm	9C06031A1R60J	Tape & Reel
1.8 OHM	1/16W	5%	-200/+500 ppm	9C06031A1R80J	Tape & Reel
2.0 OHM	1/16W	5%	-200/+500 ppm	9C06031A2R00J	Tape & Reel
2.2 OHM	1/16W	5%	-200/+500 ppm	9C06031A2R20J	Tape & Reel
2.4 OHM	1/16W	5%	-200/+500 ppm	9C06031A2R40J	Tape & Reel
2.7 OHM	1/16W	5%	-200/+500 ppm	9C06031A2R70J	Tape & Reel
3.0 OHM	1/16W	5%	-200/+500 ppm	9C06031A3R00J	Tape & Reel
3.3 OHM	1/16W	5%	-200/+500 ppm	9C06031A3R30J	Tape & Reel
3.6 OHM	1/16W	5%	-200/+500 ppm	9C06031A3R60J	Tape & Reel
3.9 OHM	1/16W	5%	-200/+500 ppm	9C06031A3R90J	Tape & Reel
4.3 OHM	1/16W	5%	-200/+500 ppm	9C06031A4R30J	Tape & Reel
4.7 OHM	1/16W	5%	-200/+500 ppm	9C06031A4R70J	Tape & Reel
5.1 OHM	1/16W	5%	-200/+500 ppm	9C06031A5R10J	Tape & Reel
5.6 OHM	1/16W	5%	-200/+500 ppm	9C06031A5R60J	Tape & Reel
6.2 OHM	1/16W	5%	-200/+500 ppm	9C06031A6R20J	Tape & Reel
6.8 OHM	1/16W	5%	-200/+500 ppm	9C06031A6R80J	Tape & Reel
7.9 OHM	1/16W	5%	-200/+500 ppm	9C06031A7R90J	Tape & Reel
8.2 OHM	1/16W	5%	-200/+500 ppm	9C06031A8R20J	Tape & Reel
9.1 OHM	1/16W	5%	-200/+500 ppm	9C06031A9R10J	Tape & Reel
10 OHM	1/16W	5%	±200 ppm	9C06031A10R0J	Tape & Reel
11 OHM	1/16W	5%	±200 ppm	9C06031A11R0J	Tape & Reel
12 OHM	1/16W	5%	±200 ppm	9C06031A12R0J	Tape & Reel
13 OHM	1/16W	5%	±200 ppm	9C06031A13R0J	Tape & Reel
15 OHM	1/16W	5%	±200 ppm	9C06031A15R0J	Tape & Reel
16 OHM	1/16W	5%	±200 ppm	9C06031A16R0J	Tape & Reel
18 OHM	1/16W	5%	±200 ppm	9C06031A18R0J	Tape & Reel
20 OHM	1/16W	5%	±200 ppm	9C06031A20R0J	Tape & Reel
22 OHM	1/16W	5%	±200 ppm	9C06031A22R0J	Tape & Reel
24 OHM	1/16W	5%	±200 ppm	9C06031A24R0J	Tape & Reel
27 OHM	1/16W	5%	±200 ppm	9C06031A27R0J	Tape & Reel
30 OHM	1/16W	5%	±200 ppm	9C06031A30R0J	Tape & Reel
33 OHM	1/16W	5%	±200 ppm	9C06031A33R0J	Tape & Reel
36 OHM	1/16W	5%	±200 ppm	9C06031A36R0J	Tape & Reel
39 OHM	1/16W	5%	±200 ppm	9C06031A39R0J	Tape & Reel
43 OHM	1/16W	5%	±200 ppm	9C06031A43R0J	Tape & Reel
47 OHM	1/16W	5%	±200 ppm	9C06031A47R0J	Tape & Reel
51 OHM	1/16W	5%	±200 ppm	9C06031A51R0J	Tape & Reel
56 OHM	1/16W	5%	±200 ppm	9C06031A56R0J	Tape & Reel
62 OHM	1/16W	5%	±200 ppm	9C06031A62R0J	Tape & Reel
68 OHM	1/16W	5%	±200 ppm	9C06031A68R0J	Tape & Reel
75 OHM	1/16W	5%	±200 ppm	9C06031A75R0J	Tape & Reel
82 OHM	1/16W	5%	±200 ppm	9C06031A82R0J	Tape & Reel
91 OHM	1/16W	5%	±200 ppm	9C06031A91R0J	Tape & Reel
100 OHM	1/16W	5%	±200 ppm	9C06031A1000J	Tape & Reel
110 OHM	1/16W	5%	±200 ppm	9C06031A1100J	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... J Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	1/16W	5%	±200 ppm	9C06031A1200J	Tape & Reel
130 OHM	1/16W	5%	±200 ppm	9C06031A1300J	Tape & Reel
150 OHM	1/16W	5%	±200 ppm	9C06031A1500J	Tape & Reel
160 OHM	1/16W	5%	±200 ppm	9C06031A1600J	Tape & Reel
180 OHM	1/16W	5%	±200 ppm	9C06031A1800J	Tape & Reel
200 OHM	1/16W	5%	±200 ppm	9C06031A2000J	Tape & Reel
220 OHM	1/16W	5%	±200 ppm	9C06031A2200J	Tape & Reel
240 OHM	1/16W	5%	±200 ppm	9C06031A2400J	Tape & Reel
270 OHM	1/16W	5%	±200 ppm	9C06031A2700J	Tape & Reel
300 OHM	1/16W	5%	±200 ppm	9C06031A3000J	Tape & Reel
330 OHM	1/16W	5%	±200 ppm	9C06031A3300J	Tape & Reel
360 OHM	1/16W	5%	±200 ppm	9C06031A3600J	Tape & Reel
390 OHM	1/16W	5%	±200 ppm	9C06031A3900J	Tape & Reel
430 OHM	1/16W	5%	±200 ppm	9C06031A4300J	Tape & Reel
470 OHM	1/16W	5%	±200 ppm	9C06031A4700J	Tape & Reel
510 OHM	1/16W	5%	±200 ppm	9C06031A5100J	Tape & Reel
560 OHM	1/16W	5%	±200 ppm	9C06031A5600J	Tape & Reel
620 OHM	1/16W	5%	±200 ppm	9C06031A6200J	Tape & Reel
680 OHM	1/16W	5%	±200 ppm	9C06031A6800J	Tape & Reel
750 OHM	1/16W	5%	±200 ppm	9C06031A7500J	Tape & Reel
820 OHM	1/16W	5%	±200 ppm	9C06031A8200J	Tape & Reel
910 OHM	1/16W	5%	±200 ppm	9C06031A9100J	Tape & Reel
1K OHM	1/16W	5%	±200 ppm	9C06031A1001J	Tape & Reel
1.1K OHM	1/16W	5%	±200 ppm	9C06031A1101J	Tape & Reel
1.2K OHM	1/16W	5%	±200 ppm	9C06031A1201J	Tape & Reel
1.3K OHM	1/16W	5%	±200 ppm	9C06031A1301J	Tape & Reel
1.5K OHM	1/16W	5%	±200 ppm	9C06031A1501J	Tape & Reel
1.6K OHM	1/16W	5%	±200 ppm	9C06031A1601J	Tape & Reel
1.8K OHM	1/16W	5%	±200 ppm	9C06031A1801J	Tape & Reel
2K OHM	1/16W	5%	±200 ppm	9C06031A2001J	Tape & Reel
2.2K OHM	1/16W	5%	±200 ppm	9C06031A2201J	Tape & Reel
2.4K OHM	1/16W	5%	±200 ppm	9C06031A2401J	Tape & Reel
2.7K OHM	1/16W	5%	±200 ppm	9C06031A2701J	Tape & Reel
3K OHM	1/16W	5%	±200 ppm	9C06031A3001J	Tape & Reel
3.3K OHM	1/16W	5%	±200 ppm	9C06031A3301J	Tape & Reel
3.6K OHM	1/16W	5%	±200 ppm	9C06031A3601J	Tape & Reel
3.9K OHM	1/16W	5%	±200 ppm	9C06031A3901J	Tape & Reel
4.3K OHM	1/16W	5%	±200 ppm	9C06031A4301J	Tape & Reel
4.7K OHM	1/16W	5%	±200 ppm	9C06031A4701J	Tape & Reel
5.1K OHM	1/16W	5%	±200 ppm	9C06031A5101J	Tape & Reel
5.6K OHM	1/16W	5%	±200 ppm	9C06031A5601J	Tape & Reel
6.2K OHM	1/16W	5%	±200 ppm	9C06031A6201J	Tape & Reel
6.8K OHM	1/16W	5%	±200 ppm	9C06031A6801J	Tape & Reel
7.5K OHM	1/16W	5%	±200 ppm	9C06031A7501J	Tape & Reel
8.2K OHM	1/16W	5%	±200 ppm	9C06031A8201J	Tape & Reel
9.1K OHM	1/16W	5%	±200 ppm	9C06031A9101J	Tape & Reel
10K OHM	1/16W	5%	±200 ppm	9C06031A1002J	Tape & Reel
11K OHM	1/16W	5%	±200 ppm	9C06031A1102J	Tape & Reel
12K OHM	1/16W	5%	±200 ppm	9C06031A1202J	Tape & Reel
13K OHM	1/16W	5%	±200 ppm	9C06031A1302J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15K OHM	1/16W	5%	±200 ppm	9C06031A1502J	Tape & Reel
16K OHM	1/16W	5%	±200 ppm	9C06031A1602J	Tape & Reel
18K OHM	1/16W	5%	±200 ppm	9C06031A1802J	Tape & Reel
20K OHM	1/16W	5%	±200 ppm	9C06031A2002J	Tape & Reel
22K OHM	1/16W	5%	±200 ppm	9C06031A2202J	Tape & Reel
24K OHM	1/16W	5%	±200 ppm	9C06031A2402J	Tape & Reel
27K OHM	1/16W	5%	±200 ppm	9C06031A2702J	Tape & Reel
30K OHM	1/16W	5%	±200 ppm	9C06031A3002J	Tape & Reel
33K OHM	1/16W	5%	±200 ppm	9C06031A3302J	Tape & Reel
36K OHM	1/16W	5%	±200 ppm	9C06031A3602J	Tape & Reel
39K OHM	1/16W	5%	±200 ppm	9C06031A3902J	Tape & Reel
43K OHM	1/16W	5%	±200 ppm	9C06031A4302J	Tape & Reel
47K OHM	1/16W	5%	±200 ppm	9C06031A4702J	Tape & Reel
51K OHM	1/16W	5%	±200 ppm	9C06031A5102J	Tape & Reel
56K OHM	1/16W	5%	±200 ppm	9C06031A5602J	Tape & Reel
62K OHM	1/16W	5%	±200 ppm	9C06031A6202J	Tape & Reel
68K OHM	1/16W	5%	±200 ppm	9C06031A6802J	Tape & Reel
75K OHM	1/16W	5%	±200 ppm	9C06031A7502J	Tape & Reel
82K OHM	1/16W	5%	±200 ppm	9C06031A8202J	Tape & Reel
91K OHM	1/16W	5%	±200 ppm	9C06031A9102J	Tape & Reel
100K OHM	1/16W	5%	±200 ppm	9C06031A1003J	Tape & Reel
110K OHM	1/16W	5%	±200 ppm	9C06031A1103J	Tape & Reel
120K OHM	1/16W	5%	±200 ppm	9C06031A1203J	Tape & Reel
130K OHM	1/16W	5%	±200 ppm	9C06031A1303J	Tape & Reel
150K OHM	1/16W	5%	±200 ppm	9C06031A1503J	Tape & Reel
160K OHM	1/16W	5%	±200 ppm	9C06031A1603J	Tape & Reel
180K OHM	1/16W	5%	±200 ppm	9C06031A1803J	Tape & Reel
200K OHM	1/16W	5%	±200 ppm	9C06031A2003J	Tape & Reel
220K OHM	1/16W	5%	±200 ppm	9C06031A2203J	Tape & Reel
240K OHM	1/16W	5%	±200 ppm	9C06031A2403J	Tape & Reel
270K OHM	1/16W	5%	±200 ppm	9C06031A2703J	Tape & Reel
300K OHM	1/16W	5%	±200 ppm	9C06031A3003J	Tape & Reel
330K OHM	1/16W	5%	±200 ppm	9C06031A3303J	Tape & Reel
360K OHM	1/16W	5%	±200 ppm	9C06031A3603J	Tape & Reel
390K OHM	1/16W	5%	±200 ppm	9C06031A3903J	Tape & Reel
430K OHM	1/16W	5%	±200 ppm	9C06031A4303J	Tape & Reel
470K OHM	1/16W	5%	±200 ppm	9C06031A4703J	Tape & Reel
510K OHM	1/16W	5%	±200 ppm	9C06031A5103J	Tape & Reel
560K OHM	1/16W	5%	±200 ppm	9C06031A5603J	Tape & Reel
620K OHM	1/16W	5%	±200 ppm	9C06031A6203J	Tape & Reel
680K OHM	1/16W	5%	±200 ppm	9C06031A6803J	Tape & Reel
750K OHM	1/16W	5%	±200 ppm	9C06031A7503J	Tape & Reel
820K OHM	1/16W	5%	±200 ppm	9C06031A8203J	Tape & Reel
910K OHM	1/16W	5%	±200 ppm	9C06031A9013J	Tape & Reel
1.0 M OHM	1/16W	5%	±300 ppm	9C06031A1004J	Tape & Reel
1.1 M OHM	1/16W	5%	±300 ppm	9C06031A1104J	Tape & Reel
1.2 M OHM	1/16W	5%	±300 ppm	9C06031A1204J	Tape & Reel
1.3 M OHM	1/16W	5%	±300 ppm	9C06031A1304J	Tape & Reel
1.5 M OHM	1/16W	5%	±300 ppm	9C06031A1504J	Tape & Reel
1.6 M OHM	1/16W	5%	±300 ppm	9C06031A1604J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... J Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.8 MOHM	1/16W	5%	±300 ppm	9C06031A1804J	Tape & Reel
2.0 MOHM	1/16W	5%	±300 ppm	9C06031A2004J	Tape & Reel
2.2 MOHM	1/16W	5%	±300 ppm	9C06031A2204J	Tape & Reel
2.4 MOHM	1/16W	5%	±300 ppm	9C06031A2404J	Tape & Reel
2.7 MOHM	1/16W	5%	±300 ppm	9C06031A2704J	Tape & Reel
3.0 MOHM	1/16W	5%	±300 ppm	9C06031A3004J	Tape & Reel
3.3 MOHM	1/16W	5%	±300 ppm	9C06031A3304J	Tape & Reel
3.6 MOHM	1/16W	5%	±300 ppm	9C06031A3604J	Tape & Reel
3.9 MOHM	1/16W	5%	±300 ppm	9C06031A3904J	Tape & Reel
4.3 MOHM	1/16W	5%	±300 ppm	9C06031A4304J	Tape & Reel
4.7 MOHM	1/16W	5%	±300 ppm	9C06031A4704J	Tape & Reel
5.1 MOHM	1/16W	5%	±300 ppm	9C06031A5104J	Tape & Reel
5.6 MOHM	1/16W	5%	±300 ppm	9C06031A5604J	Tape & Reel
6.2 MOHM	1/16W	5%	±300 ppm	9C06031A6204J	Tape & Reel
6.8 MOHM	1/16W	5%	±300 ppm	9C06031A6804J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1 OHM	1/10W	5%	±200 ppm	9C08052A1R00J	Tape & Reel
1.1 OHM	1/10W	5%	±200 ppm	9C08052A1R10J	Tape & Reel
1.2 OHM	1/10W	5%	±200 ppm	9C08052A1R20J	Tape & Reel
1.3 OHM	1/10W	5%	±200 ppm	9C08052A1R30J	Tape & Reel
1.5 OHM	1/10W	5%	±200 ppm	9C08052A1R50J	Tape & Reel
1.6 OHM	1/10W	5%	±200 ppm	9C08052A1R60J	Tape & Reel
1.8 OHM	1/10W	5%	±200 ppm	9C08052A1R80J	Tape & Reel
2.0 OHM	1/10W	5%	±200 ppm	9C08052A2R00J	Tape & Reel
2.2 OHM	1/10W	5%	±200 ppm	9C08052A2R20J	Tape & Reel
2.4 OHM	1/10W	5%	±200 ppm	9C08052A2R40J	Tape & Reel
2.7 OHM	1/10W	5%	±200 ppm	9C08052A2R70J	Tape & Reel
3.0 OHM	1/10W	5%	±200 ppm	9C08052A3R00J	Tape & Reel
3.3 OHM	1/10W	5%	±200 ppm	9C08052A3R30J	Tape & Reel
3.6 OHM	1/10W	5%	±200 ppm	9C08052A3R60J	Tape & Reel
3.9 OHM	1/10W	5%	±200 ppm	9C08052A3R90J	Tape & Reel
4.3 OHM	1/10W	5%	±200 ppm	9C08052A4R30J	Tape & Reel
4.7 OHM	1/10W	5%	±200 ppm	9C08052A4R70J	Tape & Reel
5.1 OHM	1/10W	5%	±200 ppm	9C08052A5R10J	Tape & Reel
5.6 OHM	1/10W	5%	±200 ppm	9C08052A5R60J	Tape & Reel
6.2 OHM	1/10W	5%	±200 ppm	9C08052A6R20J	Tape & Reel
6.8 OHM	1/10W	5%	±200 ppm	9C08052A6R80J	Tape & Reel
7.9 OHM	1/10W	5%	±200 ppm	9C08052A7R90J	Tape & Reel
8.2 OHM	1/10W	5%	±200 ppm	9C08052A8R20J	Tape & Reel
9.1 OHM	1/10W	5%	±200 ppm	9C08052A9R10J	Tape & Reel
10 OHM	1/10W	5%	±200 ppm	9C08052A10R0J	Tape & Reel
11 OHM	1/10W	5%	±200 ppm	9C08052A11R0J	Tape & Reel
12 OHM	1/10W	5%	±200 ppm	9C08052A12R0J	Tape & Reel
13 OHM	1/10W	5%	±200 ppm	9C08052A13R0J	Tape & Reel
15 OHM	1/10W	5%	±200 ppm	9C08052A15R0J	Tape & Reel
16 OHM	1/10W	5%	±200 ppm	9C08052A16R0J	Tape & Reel
18 OHM	1/10W	5%	±200 ppm	9C08052A18R0J	Tape & Reel
20 OHM	1/10W	5%	±200 ppm	9C08052A20R0J	Tape & Reel
22 OHM	1/10W	5%	±200 ppm	9C08052A22R0J	Tape & Reel
24 OHM	1/10W	5%	±200 ppm	9C08052A24R0J	Tape & Reel
27 OHM	1/10W	5%	±200 ppm	9C08052A27R0J	Tape & Reel
30 OHM	1/10W	5%	±200 ppm	9C08052A30R0J	Tape & Reel
33 OHM	1/10W	5%	±200 ppm	9C08052A33R0J	Tape & Reel
36 OHM	1/10W	5%	±200 ppm	9C08052A36R0J	Tape & Reel
39 OHM	1/10W	5%	±200 ppm	9C08052A39R0J	Tape & Reel
43 OHM	1/10W	5%	±200 ppm	9C08052A43R0J	Tape & Reel
47 OHM	1/10W	5%	±200 ppm	9C08052A47R0J	Tape & Reel
51 OHM	1/10W	5%	±200 ppm	9C08052A51R0J	Tape & Reel
56 OHM	1/10W	5%	±200 ppm	9C08052A56R0J	Tape & Reel
62 OHM	1/10W	5%	±200 ppm	9C08052A62R0J	Tape & Reel
68 OHM	1/10W	5%	±200 ppm	9C08052A68R0J	Tape & Reel
75 OHM	1/10W	5%	±200 ppm	9C08052A75R0J	Tape & Reel
82 OHM	1/10W	5%	±200 ppm	9C08052A82R0J	Tape & Reel
91 OHM	1/10W	5%	±200 ppm	9C08052A91R0J	Tape & Reel
100 OHM	1/10W	5%	±200 ppm	9C08052A1000J	Tape & Reel
110 OHM	1/10W	5%	±200 ppm	9C08052A1100J	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... J Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	1/10W	5%	±200 ppm	9C08052A1200J	Tape & Reel
130 OHM	1/10W	5%	±200 ppm	9C08052A1300J	Tape & Reel
150 OHM	1/10W	5%	±200 ppm	9C08052A1500J	Tape & Reel
160 OHM	1/10W	5%	±200 ppm	9C08052A1600J	Tape & Reel
180 OHM	1/10W	5%	±200 ppm	9C08052A1800J	Tape & Reel
200 OHM	1/10W	5%	±200 ppm	9C08052A2000J	Tape & Reel
220 OHM	1/10W	5%	±200 ppm	9C08052A2200J	Tape & Reel
240 OHM	1/10W	5%	±200 ppm	9C08052A2400J	Tape & Reel
270 OHM	1/10W	5%	±200 ppm	9C08052A2700J	Tape & Reel
300 OHM	1/10W	5%	±200 ppm	9C08052A3000J	Tape & Reel
330 OHM	1/10W	5%	±200 ppm	9C08052A3300J	Tape & Reel
360 OHM	1/10W	5%	±200 ppm	9C08052A3600J	Tape & Reel
390 OHM	1/10W	5%	±200 ppm	9C08052A3900J	Tape & Reel
430 OHM	1/10W	5%	±200 ppm	9C08052A4300J	Tape & Reel
470 OHM	1/10W	5%	±200 ppm	9C08052A4700J	Tape & Reel
510 OHM	1/10W	5%	±200 ppm	9C08052A5100J	Tape & Reel
560 OHM	1/10W	5%	±200 ppm	9C08052A5600J	Tape & Reel
620 OHM	1/10W	5%	±200 ppm	9C08052A6200J	Tape & Reel
680 OHM	1/10W	5%	±200 ppm	9C08052A6800J	Tape & Reel
750 OHM	1/10W	5%	±200 ppm	9C08052A7500J	Tape & Reel
820 OHM	1/10W	5%	±200 ppm	9C08052A8200J	Tape & Reel
910 OHM	1/10W	5%	±200 ppm	9C08052A9100J	Tape & Reel
1K OHM	1/10W	5%	±200 ppm	9C08052A1001J	Tape & Reel
1.1K OHM	1/10W	5%	±200 ppm	9C08052A1101J	Tape & Reel
1.2K OHM	1/10W	5%	±200 ppm	9C08052A1201J	Tape & Reel
1.3K OHM	1/10W	5%	±200 ppm	9C08052A1301J	Tape & Reel
1.5K OHM	1/10W	5%	±200 ppm	9C08052A1501J	Tape & Reel
1.6K OHM	1/10W	5%	±200 ppm	9C08052A1601J	Tape & Reel
1.8K OHM	1/10W	5%	±200 ppm	9C08052A1801J	Tape & Reel
2K OHM	1/10W	5%	±200 ppm	9C08052A2001J	Tape & Reel
2.2K OHM	1/10W	5%	±200 ppm	9C08052A2201J	Tape & Reel
2.4K OHM	1/10W	5%	±200 ppm	9C08052A2401J	Tape & Reel
2.7K OHM	1/10W	5%	±200 ppm	9C08052A2701J	Tape & Reel
3K OHM	1/10W	5%	±200 ppm	9C08052A3001J	Tape & Reel
3.3K OHM	1/10W	5%	±200 ppm	9C08052A3301J	Tape & Reel
3.6K OHM	1/10W	5%	±200 ppm	9C08052A3601J	Tape & Reel
3.9K OHM	1/10W	5%	±200 ppm	9C08052A3901J	Tape & Reel
4.3K OHM	1/10W	5%	±200 ppm	9C08052A4301J	Tape & Reel
4.7K OHM	1/10W	5%	±200 ppm	9C08052A4701J	Tape & Reel
5.1K OHM	1/10W	5%	±200 ppm	9C08052A5101J	Tape & Reel
5.6K OHM	1/10W	5%	±200 ppm	9C08052A5601J	Tape & Reel
6.2K OHM	1/10W	5%	±200 ppm	9C08052A6201J	Tape & Reel
6.8K OHM	1/10W	5%	±200 ppm	9C08052A6801J	Tape & Reel
7.5K OHM	1/10W	5%	±200 ppm	9C08052A7501J	Tape & Reel
8.2K OHM	1/10W	5%	±200 ppm	9C08052A8201J	Tape & Reel
9.1K OHM	1/10W	5%	±200 ppm	9C08052A9101J	Tape & Reel
10K OHM	1/10W	5%	±200 ppm	9C08052A1002J	Tape & Reel
11K OHM	1/10W	5%	±200 ppm	9C08052A1102J	Tape & Reel
12K OHM	1/10W	5%	±200 ppm	9C08052A1202J	Tape & Reel
13K OHM	1/10W	5%	±200 ppm	9C08052A1302J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15K OHM	1/10W	5%	±200 ppm	9C08052A1502J	Tape & Reel
16K OHM	1/10W	5%	±200 ppm	9C08052A1602J	Tape & Reel
18K OHM	1/10W	5%	±200 ppm	9C08052A1802J	Tape & Reel
20K OHM	1/10W	5%	±200 ppm	9C08052A2002J	Tape & Reel
22K OHM	1/10W	5%	±200 ppm	9C08052A2202J	Tape & Reel
24K OHM	1/10W	5%	±200 ppm	9C08052A2402J	Tape & Reel
27K OHM	1/10W	5%	±200 ppm	9C08052A2702J	Tape & Reel
30K OHM	1/10W	5%	±200 ppm	9C08052A3002J	Tape & Reel
33K OHM	1/10W	5%	±200 ppm	9C08052A3302J	Tape & Reel
36K OHM	1/10W	5%	±200 ppm	9C08052A3602J	Tape & Reel
39K OHM	1/10W	5%	±200 ppm	9C08052A3902J	Tape & Reel
43K OHM	1/10W	5%	±200 ppm	9C08052A4302J	Tape & Reel
47K OHM	1/10W	5%	±200 ppm	9C08052A4702J	Tape & Reel
51K OHM	1/10W	5%	±200 ppm	9C08052A5102J	Tape & Reel
56K OHM	1/10W	5%	±200 ppm	9C08052A5602J	Tape & Reel
62K OHM	1/10W	5%	±200 ppm	9C08052A6202J	Tape & Reel
68K OHM	1/10W	5%	±200 ppm	9C08052A6802J	Tape & Reel
75K OHM	1/10W	5%	±200 ppm	9C08052A7502J	Tape & Reel
82K OHM	1/10W	5%	±200 ppm	9C08052A8202J	Tape & Reel
91K OHM	1/10W	5%	±200 ppm	9C08052A9102J	Tape & Reel
100K OHM	1/10W	5%	±200 ppm	9C08052A1003J	Tape & Reel
110K OHM	1/10W	5%	±200 ppm	9C08052A1103J	Tape & Reel
120K OHM	1/10W	5%	±200 ppm	9C08052A1203J	Tape & Reel
130K OHM	1/10W	5%	±200 ppm	9C08052A1303J	Tape & Reel
150K OHM	1/10W	5%	±200 ppm	9C08052A1503J	Tape & Reel
160K OHM	1/10W	5%	±200 ppm	9C08052A1603J	Tape & Reel
180K OHM	1/10W	5%	±200 ppm	9C08052A1803J	Tape & Reel
200K OHM	1/10W	5%	±200 ppm	9C08052A2003J	Tape & Reel
220K OHM	1/10W	5%	±200 ppm	9C08052A2203J	Tape & Reel
240K OHM	1/10W	5%	±200 ppm	9C08052A2403J	Tape & Reel
270K OHM	1/10W	5%	±200 ppm	9C08052A2703J	Tape & Reel
300K OHM	1/10W	5%	±200 ppm	9C08052A3003J	Tape & Reel
330K OHM	1/10W	5%	±200 ppm	9C08052A3303J	Tape & Reel
360K OHM	1/10W	5%	±200 ppm	9C08052A3603J	Tape & Reel
390K OHM	1/10W	5%	±200 ppm	9C08052A3903J	Tape & Reel
430K OHM	1/10W	5%	±200 ppm	9C08052A4303J	Tape & Reel
470K OHM	1/10W	5%	±200 ppm	9C08052A4703J	Tape & Reel
510K OHM	1/10W	5%	±200 ppm	9C08052A5103J	Tape & Reel
560K OHM	1/10W	5%	±200 ppm	9C08052A5603J	Tape & Reel
620K OHM	1/10W	5%	±200 ppm	9C08052A6203J	Tape & Reel
680K OHM	1/10W	5%	±200 ppm	9C08052A6803J	Tape & Reel
750K OHM	1/10W	5%	±200 ppm	9C08052A7503J	Tape & Reel
820K OHM	1/10W	5%	±200 ppm	9C08052A8203J	Tape & Reel
910K OHM	1/10W	5%	±200 ppm	9C08052A9103J	Tape & Reel
1.0 M OHM	1/10W	5%	±200 ppm	9C08052A1004J	Tape & Reel
1.1 M OHM	1/10W	5%	±200 ppm	9C08052A1104J	Tape & Reel
1.2 M OHM	1/10W	5%	±200 ppm	9C08052A1204J	Tape & Reel
1.3 M OHM	1/10W	5%	±200 ppm	9C08052A1304J	Tape & Reel
1.5 M OHM	1/10W	5%	±200 ppm	9C08052A1504J	Tape & Reel
1.6 M OHM	1/10W	5%	±200 ppm	9C08052A1604J	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... J Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.8 MOHM	1/10W	5%	±200 ppm	9C08052A1804J	Tape & Reel
2.0 MOHM	1/10W	5%	±200 ppm	9C08052A2004J	Tape & Reel
2.2 MOHM	1/10W	5%	±200 ppm	9C08052A2204J	Tape & Reel
2.4 MOHM	1/10W	5%	±200 ppm	9C08052A2404J	Tape & Reel
2.7 MOHM	1/10W	5%	±200 ppm	9C08052A2704J	Tape & Reel
3.0 MOHM	1/10W	5%	±200 ppm	9C08052A3004J	Tape & Reel
3.3 MOHM	1/10W	5%	±200 ppm	9C08052A3304J	Tape & Reel
3.6 MOHM	1/10W	5%	±200 ppm	9C08052A3604J	Tape & Reel
3.9 MOHM	1/10W	5%	±200 ppm	9C08052A3904J	Tape & Reel
4.3 MOHM	1/10W	5%	±200 ppm	9C08052A4304J	Tape & Reel
4.7 MOHM	1/10W	5%	±200 ppm	9C08052A4704J	Tape & Reel
5.1 MOHM	1/10W	5%	±200 ppm	9C08052A5104J	Tape & Reel
5.6 MOHM	1/10W	5%	±200 ppm	9C08052A5604J	Tape & Reel
6.2 MOHM	1/10W	5%	±200 ppm	9C08052A6204J	Tape & Reel
6.8 MOHM	1/10W	5%	±200 ppm	9C08052A6804J	Tape & Reel
7.5 MOHM	1/10W	5%	±200 ppm	9C08052A7504J	Tape & Reel
8.2 MOHM	1/10W	5%	±200 ppm	9C08052A8204J	Tape & Reel
9.1 MOHM	1/10W	5%	±200 ppm	9C08052A9104J	Tape & Reel
10 MOHM	1/10W	5%	±200 ppm	9C08052A1005J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1 OHM	1/4W	5%	±200 ppm	9C12063A1R00J	Tape & Reel
1.1 OHM	1/4W	5%	±200 ppm	9C12063A1R10J	Tape & Reel
1.2 OHM	1/4W	5%	±200 ppm	9C12063A1R20J	Tape & Reel
1.3 OHM	1/4W	5%	±200 ppm	9C12063A1R30J	Tape & Reel
1.5 OHM	1/4W	5%	±200 ppm	9C12063A1R50J	Tape & Reel
1.6 OHM	1/4W	5%	±200 ppm	9C12063A1R60J	Tape & Reel
1.8 OHM	1/4W	5%	±200 ppm	9C12063A1R80J	Tape & Reel
2.0 OHM	1/4W	5%	±200 ppm	9C12063A2R00J	Tape & Reel
2.2 OHM	1/4W	5%	±200 ppm	9C12063A2R20J	Tape & Reel
2.4 OHM	1/4W	5%	±200 ppm	9C12063A2R40J	Tape & Reel
2.7 OHM	1/4W	5%	±200 ppm	9C12063A2R70J	Tape & Reel
3.0 OHM	1/4W	5%	±200 ppm	9C12063A3R00J	Tape & Reel
3.3 OHM	1/4W	5%	±200 ppm	9C12063A3R30J	Tape & Reel
3.6 OHM	1/4W	5%	±200 ppm	9C12063A3R60J	Tape & Reel
3.9 OHM	1/4W	5%	±200 ppm	9C12063A3R90J	Tape & Reel
4.3 OHM	1/4W	5%	±200 ppm	9C12063A4R30J	Tape & Reel
4.7 OHM	1/4W	5%	±200 ppm	9C12063A4R70J	Tape & Reel
5.1 OHM	1/4W	5%	±200 ppm	9C12063A5R10J	Tape & Reel
5.6 OHM	1/4W	5%	±200 ppm	9C12063A5R60J	Tape & Reel
6.2 OHM	1/4W	5%	±200 ppm	9C12063A6R20J	Tape & Reel
6.8 OHM	1/4W	5%	±200 ppm	9C12063A6R80J	Tape & Reel
7.9 OHM	1/4W	5%	±200 ppm	9C12063A7R90J	Tape & Reel
8.2 OHM	1/4W	5%	±200 ppm	9C12063A8R20J	Tape & Reel
9.1 OHM	1/4W	5%	±200 ppm	9C12063A9R10J	Tape & Reel
10 OHM	1/4W	5%	±200 ppm	9C12063A10R0J	Tape & Reel
11 OHM	1/4W	5%	±200 ppm	9C12063A11R0J	Tape & Reel
12 OHM	1/4W	5%	±200 ppm	9C12063A12R0J	Tape & Reel
13 OHM	1/4W	5%	±200 ppm	9C12063A13R0J	Tape & Reel
15 OHM	1/4W	5%	±200 ppm	9C12063A15R0J	Tape & Reel
16 OHM	1/4W	5%	±200 ppm	9C12063A16R0J	Tape & Reel
18 OHM	1/4W	5%	±200 ppm	9C12063A18R0J	Tape & Reel
20 OHM	1/4W	5%	±200 ppm	9C12063A20R0J	Tape & Reel
22 OHM	1/4W	5%	±200 ppm	9C12063A22R0J	Tape & Reel
24 OHM	1/4W	5%	±200 ppm	9C12063A24R0J	Tape & Reel
27 OHM	1/4W	5%	±200 ppm	9C12063A27R0J	Tape & Reel
30 OHM	1/4W	5%	±200 ppm	9C12063A30R0J	Tape & Reel
33 OHM	1/4W	5%	±200 ppm	9C12063A33R0J	Tape & Reel
36 OHM	1/4W	5%	±200 ppm	9C12063A36R0J	Tape & Reel
39 OHM	1/4W	5%	±200 ppm	9C12063A39R0J	Tape & Reel
43 OHM	1/4W	5%	±200 ppm	9C12063A43R0J	Tape & Reel
47 OHM	1/4W	5%	±200 ppm	9C12063A47R0J	Tape & Reel
51 OHM	1/4W	5%	±200 ppm	9C12063A51R0J	Tape & Reel
56 OHM	1/4W	5%	±200 ppm	9C12063A56R0J	Tape & Reel
62 OHM	1/4W	5%	±200 ppm	9C12063A62R0J	Tape & Reel
68 OHM	1/4W	5%	±200 ppm	9C12063A68R0J	Tape & Reel
75 OHM	1/4W	5%	±200 ppm	9C12063A75R0J	Tape & Reel
82 OHM	1/4W	5%	±200 ppm	9C12063A82R0J	Tape & Reel
91 OHM	1/4W	5%	±200 ppm	9C12063A91R0J	Tape & Reel
100 OHM	1/4W	5%	±200 ppm	9C12063A1000J	Tape & Reel
110 OHM	1/4W	5%	±200 ppm	9C12063A1100J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... J Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	1/4W	5%	±200 ppm	9C12063A1200J	Tape & Reel
130 OHM	1/4W	5%	±200 ppm	9C12063A1300J	Tape & Reel
150 OHM	1/4W	5%	±200 ppm	9C12063A1500J	Tape & Reel
160 OHM	1/4W	5%	±200 ppm	9C12063A1600J	Tape & Reel
180 OHM	1/4W	5%	±200 ppm	9C12063A1800J	Tape & Reel
200 OHM	1/4W	5%	±200 ppm	9C12063A2000J	Tape & Reel
220 OHM	1/4W	5%	±200 ppm	9C12063A2200J	Tape & Reel
240 OHM	1/4W	5%	±200 ppm	9C12063A2400J	Tape & Reel
270 OHM	1/4W	5%	±200 ppm	9C12063A2700J	Tape & Reel
300 OHM	1/4W	5%	±200 ppm	9C12063A3000J	Tape & Reel
330 OHM	1/4W	5%	±200 ppm	9C12063A3300J	Tape & Reel
360 OHM	1/4W	5%	±200 ppm	9C12063A3600J	Tape & Reel
390 OHM	1/4W	5%	±200 ppm	9C12063A3900J	Tape & Reel
430 OHM	1/4W	5%	±200 ppm	9C12063A4300J	Tape & Reel
470 OHM	1/4W	5%	±200 ppm	9C12063A4700J	Tape & Reel
510 OHM	1/4W	5%	±200 ppm	9C12063A5100J	Tape & Reel
560 OHM	1/4W	5%	±200 ppm	9C12063A5600J	Tape & Reel
620 OHM	1/4W	5%	±200 ppm	9C12063A6200J	Tape & Reel
680 OHM	1/4W	5%	±200 ppm	9C12063A6800J	Tape & Reel
750 OHM	1/4W	5%	±200 ppm	9C12063A7500J	Tape & Reel
820 OHM	1/4W	5%	±200 ppm	9C12063A8200J	Tape & Reel
910 OHM	1/4W	5%	±200 ppm	9C12063A9100J	Tape & Reel
1K OHM	1/4W	5%	±200 ppm	9C12063A1001J	Tape & Reel
1.1K OHM	1/4W	5%	±200 ppm	9C12063A1101J	Tape & Reel
1.2K OHM	1/4W	5%	±200 ppm	9C12063A1201J	Tape & Reel
1.3K OHM	1/4W	5%	±200 ppm	9C12063A1301J	Tape & Reel
1.5K OHM	1/4W	5%	±200 ppm	9C12063A1501J	Tape & Reel
1.6K OHM	1/4W	5%	±200 ppm	9C12063A1601J	Tape & Reel
1.8K OHM	1/4W	5%	±200 ppm	9C12063A1801J	Tape & Reel
2K OHM	1/4W	5%	±200 ppm	9C12063A2001J	Tape & Reel
2.2K OHM	1/4W	5%	±200 ppm	9C12063A2201J	Tape & Reel
2.4K OHM	1/4W	5%	±200 ppm	9C12063A2401J	Tape & Reel
2.7K OHM	1/4W	5%	±200 ppm	9C12063A2701J	Tape & Reel
3K OHM	1/4W	5%	±200 ppm	9C12063A3001J	Tape & Reel
3.3K OHM	1/4W	5%	±200 ppm	9C12063A3301J	Tape & Reel
3.6K OHM	1/4W	5%	±200 ppm	9C12063A3601J	Tape & Reel
3.9K OHM	1/4W	5%	±200 ppm	9C12063A3901J	Tape & Reel
4.3K OHM	1/4W	5%	±200 ppm	9C12063A4301J	Tape & Reel
4.7K OHM	1/4W	5%	±200 ppm	9C12063A4701J	Tape & Reel
5.1K OHM	1/4W	5%	±200 ppm	9C12063A5101J	Tape & Reel
5.6K OHM	1/4W	5%	±200 ppm	9C12063A5601J	Tape & Reel
6.2K OHM	1/4W	5%	±200 ppm	9C12063A6201J	Tape & Reel
6.8K OHM	1/4W	5%	±200 ppm	9C12063A6801J	Tape & Reel
7.5K OHM	1/4W	5%	±200 ppm	9C12063A7501J	Tape & Reel
8.2K OHM	1/4W	5%	±200 ppm	9C12063A8201J	Tape & Reel
9.1K OHM	1/4W	5%	±200 ppm	9C12063A9101J	Tape & Reel
10K OHM	1/4W	5%	±200 ppm	9C12063A1002J	Tape & Reel
11K OHM	1/4W	5%	±200 ppm	9C12063A1102J	Tape & Reel
12K OHM	1/4W	5%	±200 ppm	9C12063A1202J	Tape & Reel
13K OHM	1/4W	5%	±200 ppm	9C12063A1302J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15K OHM	1/4W	5%	±200 ppm	9C12063A1502J	Tape & Reel
16K OHM	1/4W	5%	±200 ppm	9C12063A1602J	Tape & Reel
18K OHM	1/4W	5%	±200 ppm	9C12063A1802J	Tape & Reel
20K OHM	1/4W	5%	±200 ppm	9C12063A2002J	Tape & Reel
22K OHM	1/4W	5%	±200 ppm	9C12063A2202J	Tape & Reel
24K OHM	1/4W	5%	±200 ppm	9C12063A2402J	Tape & Reel
27K OHM	1/4W	5%	±200 ppm	9C12063A2702J	Tape & Reel
30K OHM	1/4W	5%	±200 ppm	9C12063A3002J	Tape & Reel
33K OHM	1/4W	5%	±200 ppm	9C12063A3302J	Tape & Reel
36K OHM	1/4W	5%	±200 ppm	9C12063A3602J	Tape & Reel
39K OHM	1/4W	5%	±200 ppm	9C12063A3902J	Tape & Reel
43K OHM	1/4W	5%	±200 ppm	9C12063A4302J	Tape & Reel
47K OHM	1/4W	5%	±200 ppm	9C12063A4702J	Tape & Reel
51K OHM	1/4W	5%	±200 ppm	9C12063A5102J	Tape & Reel
56K OHM	1/4W	5%	±200 ppm	9C12063A5602J	Tape & Reel
62K OHM	1/4W	5%	±200 ppm	9C12063A6202J	Tape & Reel
68K OHM	1/4W	5%	±200 ppm	9C12063A6802J	Tape & Reel
75K OHM	1/4W	5%	±200 ppm	9C12063A7502J	Tape & Reel
82K OHM	1/4W	5%	±200 ppm	9C12063A8202J	Tape & Reel
91K OHM	1/4W	5%	±200 ppm	9C12063A9102J	Tape & Reel
100K OHM	1/4W	5%	±200 ppm	9C12063A1003J	Tape & Reel
110K OHM	1/4W	5%	±200 ppm	9C12063A1103J	Tape & Reel
120K OHM	1/4W	5%	±200 ppm	9C12063A1203J	Tape & Reel
130K OHM	1/4W	5%	±200 ppm	9C12063A1303J	Tape & Reel
150K OHM	1/4W	5%	±200 ppm	9C12063A1503J	Tape & Reel
160K OHM	1/4W	5%	±200 ppm	9C12063A1603J	Tape & Reel
180K OHM	1/4W	5%	±200 ppm	9C12063A1803J	Tape & Reel
200K OHM	1/4W	5%	±200 ppm	9C12063A2003J	Tape & Reel
220K OHM	1/4W	5%	±200 ppm	9C12063A2203J	Tape & Reel
240K OHM	1/4W	5%	±200 ppm	9C12063A2403J	Tape & Reel
270K OHM	1/4W	5%	±200 ppm	9C12063A2703J	Tape & Reel
300K OHM	1/4W	5%	±200 ppm	9C12063A3003J	Tape & Reel
330K OHM	1/4W	5%	±200 ppm	9C12063A3303J	Tape & Reel
360K OHM	1/4W	5%	±200 ppm	9C12063A3603J	Tape & Reel
390K OHM	1/4W	5%	±200 ppm	9C12063A3903J	Tape & Reel
430K OHM	1/4W	5%	±200 ppm	9C12063A4303J	Tape & Reel
470K OHM	1/4W	5%	±200 ppm	9C12063A4703J	Tape & Reel
510K OHM	1/4W	5%	±200 ppm	9C12063A5103J	Tape & Reel
560K OHM	1/4W	5%	±200 ppm	9C12063A5603J	Tape & Reel
620K OHM	1/4W	5%	±200 ppm	9C12063A6203J	Tape & Reel
680K OHM	1/4W	5%	±200 ppm	9C12063A6803J	Tape & Reel
750K OHM	1/4W	5%	±200 ppm	9C12063A7503J	Tape & Reel
820K OHM	1/4W	5%	±200 ppm	9C12063A8203J	Tape & Reel
910K OHM	1/4W	5%	±200 ppm	9C12063A9103J	Tape & Reel
1.0 M OHM	1/4W	5%	±200 ppm	9C12063A1004J	Tape & Reel
1.1 M OHM	1/4W	5%	±200 ppm	9C12063A1104J	Tape & Reel
1.2 M OHM	1/4W	5%	±200 ppm	9C12063A1204J	Tape & Reel
1.3 M OHM	1/4W	5%	±200 ppm	9C12063A1304J	Tape & Reel
1.5 M OHM	1/4W	5%	±200 ppm	9C12063A1504J	Tape & Reel
1.6 M OHM	1/4W	5%	±200 ppm	9C12063A1604J	Tape & Reel

Surface Mount Resistor Chip

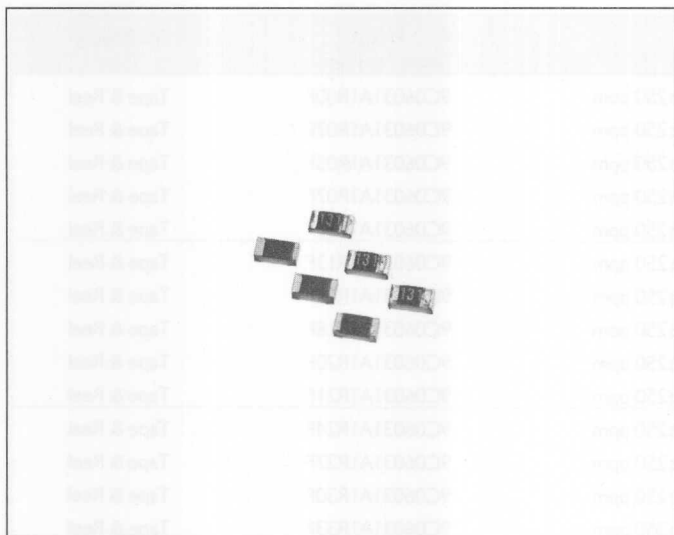
Series 9C ... J Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.8 M OHM	1/4W	5%	±200 ppm	9C12063A1804J	Tape & Reel
2.0 M OHM	1/4W	5%	±200 ppm	9C12063A2004J	Tape & Reel
2.2 M OHM	1/4W	5%	±200 ppm	9C12063A2204J	Tape & Reel
2.4 M OHM	1/4W	5%	±200 ppm	9C12063A2404J	Tape & Reel
2.7 M OHM	1/4W	5%	±200 ppm	9C12063A2704J	Tape & Reel
3.0 M OHM	1/4W	5%	±200 ppm	9C12063A3004J	Tape & Reel
3.3 M OHM	1/4W	5%	±200 ppm	9C12063A3304J	Tape & Reel
3.6 M OHM	1/4W	5%	±200 ppm	9C12063A3604J	Tape & Reel
3.9 M OHM	1/4W	5%	±200 ppm	9C12063A3904J	Tape & Reel
4.3 M OHM	1/4W	5%	±200 ppm	9C12063A4304J	Tape & Reel
4.7 M OHM	1/4W	5%	±200 ppm	9C12063A4704J	Tape & Reel
5.1 M OHM	1/4W	5%	±200 ppm	9C12063A5104J	Tape & Reel
5.6 M OHM	1/4W	5%	±200 ppm	9C12063A5604J	Tape & Reel
6.2 M OHM	1/4W	5%	±200 ppm	9C12063A6204J	Tape & Reel
6.8 M OHM	1/4W	5%	±200 ppm	9C12063A6804J	Tape & Reel
7.5 M OHM	1/4W	5%	±200 ppm	9C12063A7504J	Tape & Reel
8.2 M OHM	1/4W	5%	±200 ppm	9C12063A8204J	Tape & Reel
9.1 M OHM	1/4W	5%	±200 ppm	9C12063A9104J	Tape & Reel
10 M OHM	1/4W	5%	±200 ppm	9C12063A1005J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.



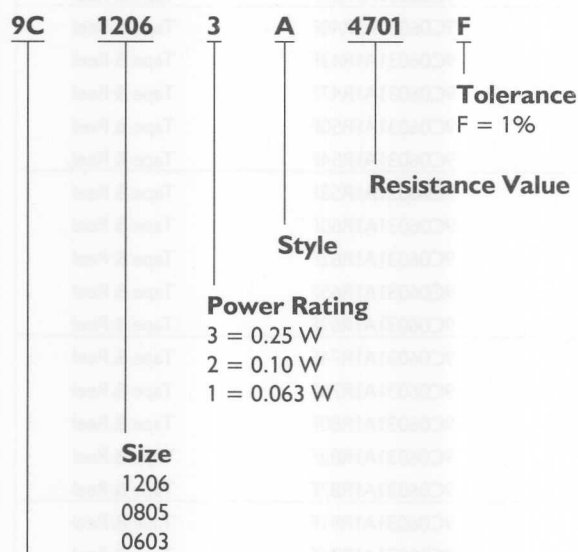
Precision Resistor Chip Series 9C ... F

1206, 0805, & 0603 size

1% Tolerance

High Reliability

Improved Performance at High Frequencies



Standard Chip Resistor

Marking

Parts marked with resistance value

Packaging

Tape & Reel - 5,000 piece reels

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
9C1206	0.25	1R-4R99	±250	1
		5R1-9R76	±200	
		10R-1M	±100	
		1.02M-10M	±200	
9C0805	0.10	1R-4R99	±250	1
		5R1-97R6	±200	
		100R-1M	±100	
9C0603	0.063	1R-4R99	±250	1
		5R1-97R6	±200	
		100R-1M	±100	

Surface Mount Resistor Chip

Series 9C ... F Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.00 OHM	1/16W	1%	±250 ppm	9C06031A1R00F	Tape & Reel
1.02 OHM	1/16W	1%	±250 ppm	9C06031A1R02F	Tape & Reel
1.05 OHM	1/16W	1%	±250 ppm	9C06031A1R05F	Tape & Reel
1.07 OHM	1/16W	1%	±250 ppm	9C06031A1R07F	Tape & Reel
1.1 OHM	1/16W	1%	±250 ppm	9C06031A1R10F	Tape & Reel
1.13 OHM	1/16W	1%	±250 ppm	9C06031A1R13F	Tape & Reel
1.15 OHM	1/16W	1%	±250 ppm	9C06031A1R15F	Tape & Reel
1.18 OHM	1/16W	1%	±250 ppm	9C06031A1R18F	Tape & Reel
1.2 OHM	1/16W	1%	±250 ppm	9C06031A1R20F	Tape & Reel
1.21 OHM	1/16W	1%	±250 ppm	9C06031A1R21F	Tape & Reel
1.24 OHM	1/16W	1%	±250 ppm	9C06031A1R24F	Tape & Reel
1.27 OHM	1/16W	1%	±250 ppm	9C06031A1R27F	Tape & Reel
1.3 OHM	1/16W	1%	±250 ppm	9C06031A1R30F	Tape & Reel
1.33 OHM	1/16W	1%	±250 ppm	9C06031A1R33F	Tape & Reel
1.37 OHM	1/16W	1%	±250 ppm	9C06031A1R37F	Tape & Reel
1.4 OHM	1/16W	1%	±250 ppm	9C06031A1R40F	Tape & Reel
1.43 OHM	1/16W	1%	±250 ppm	9C06031A1R43F	Tape & Reel
1.47 OHM	1/16W	1%	±250 ppm	9C06031A1R47F	Tape & Reel
1.5 OHM	1/16W	1%	±250 ppm	9C06031A1R50F	Tape & Reel
1.54 OHM	1/16W	1%	±250 ppm	9C06031A1R54F	Tape & Reel
1.58 OHM	1/16W	1%	±250 ppm	9C06031A1R58F	Tape & Reel
1.6 OHM	1/16W	1%	±250 ppm	9C06031A1R60F	Tape & Reel
1.62 OHM	1/16W	1%	±250 ppm	9C06031A1R62F	Tape & Reel
1.65 OHM	1/16W	1%	±250 ppm	9C06031A1R65F	Tape & Reel
1.69 OHM	1/16W	1%	±250 ppm	9C06031A1R69F	Tape & Reel
1.74 OHM	1/16W	1%	±250 ppm	9C06031A1R74F	Tape & Reel
1.78 OHM	1/16W	1%	±250 ppm	9C06031A1R78F	Tape & Reel
1.8 OHM	1/16W	1%	±250 ppm	9C06031A1R80F	Tape & Reel
1.82 OHM	1/16W	1%	±250 ppm	9C06031A1R82F	Tape & Reel
1.87 OHM	1/16W	1%	±250 ppm	9C06031A1R87F	Tape & Reel
1.91 OHM	1/16W	1%	±250 ppm	9C06031A1R91F	Tape & Reel
1.96 OHM	1/16W	1%	±250 ppm	9C06031A1R96F	Tape & Reel
2 OHM	1/16W	1%	±250 ppm	9C06031A2R00F	Tape & Reel
2.05 OHM	1/16W	1%	±250 ppm	9C06031A2R05F	Tape & Reel
2.1 OHM	1/16W	1%	±250 ppm	9C06031A2R10F	Tape & Reel
2.15 OHM	1/16W	1%	±250 ppm	9C06031A2R15F	Tape & Reel
2.2 OHM	1/16W	1%	±250 ppm	9C06031A2R20F	Tape & Reel
2.21 OHM	1/16W	1%	±250 ppm	9C06031A2R21F	Tape & Reel
2.26 OHM	1/16W	1%	±250 ppm	9C06031A2R26F	Tape & Reel
2.32 OHM	1/16W	1%	±250 ppm	9C06031A2R32F	Tape & Reel
2.37 OHM	1/16W	1%	±250 ppm	9C06031A2R37F	Tape & Reel
2.4 OHM	1/16W	1%	±250 ppm	9C06031A2R40F	Tape & Reel
2.43 OHM	1/16W	1%	±250 ppm	9C06031A2R43F	Tape & Reel
2.49 OHM	1/16W	1%	±250 ppm	9C06031A2R49F	Tape & Reel
2.55 OHM	1/16W	1%	±250 ppm	9C06031A2R55F	Tape & Reel
2.61 OHM	1/16W	1%	±250 ppm	9C06031A2R61F	Tape & Reel
2.67 OHM	1/16W	1%	±250 ppm	9C06031A2R67F	Tape & Reel
2.7 OHM	1/16W	1%	±250 ppm	9C06031A2R70F	Tape & Reel
2.74 OHM	1/16W	1%	±250 ppm	9C06031A2R74F	Tape & Reel
2.8 OHM	1/16W	1%	±250 ppm	9C06031A2R80F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
2.87 OHM	1/16W	1%	±250 ppm	9C06031A2R87F	Tape & Reel
2.94 OHM	1/16W	1%	±250 ppm	9C06031A2R94F	Tape & Reel
3.0 OHM	1/16W	1%	±250 ppm	9C06031A3R00F	Tape & Reel
3.01 OHM	1/16W	1%	±250 ppm	9C06031A3R01F	Tape & Reel
3.09 OHM	1/16W	1%	±250 ppm	9C06031A3R09F	Tape & Reel
3.16 OHM	1/16W	1%	±250 ppm	9C06031A3R16F	Tape & Reel
3.24 OHM	1/16W	1%	±250 ppm	9C06031A3R24F	Tape & Reel
3.3 OHM	1/16W	1%	±250 ppm	9C06031A3R30F	Tape & Reel
3.32 OHM	1/16W	1%	±250 ppm	9C06031A3R32F	Tape & Reel
3.4 OHM	1/16W	1%	±250 ppm	9C06031A3R40F	Tape & Reel
3.48 OHM	1/16W	1%	±250 ppm	9C06031A3R48F	Tape & Reel
3.57 OHM	1/16W	1%	±250 ppm	9C06031A3R57F	Tape & Reel
3.6 OHM	1/16W	1%	±250 ppm	9C06031A3R60F	Tape & Reel
3.65 OHM	1/16W	1%	±250 ppm	9C06031A3R65F	Tape & Reel
3.74 OHM	1/16W	1%	±250 ppm	9C06031A3R74F	Tape & Reel
3.83 OHM	1/16W	1%	±250 ppm	9C06031A3R83F	Tape & Reel
3.9 OHM	1/16W	1%	±250 ppm	9C06031A3R90F	Tape & Reel
3.92 OHM	1/16W	1%	±250 ppm	9C06031A3R92F	Tape & Reel
4.02 OHM	1/16W	1%	±250 ppm	9C06031A4R02F	Tape & Reel
4.12 OHM	1/16W	1%	±250 ppm	9C06031A4R12F	Tape & Reel
4.22 OHM	1/16W	1%	±250 ppm	9C06031A4R22F	Tape & Reel
4.3 OHM	1/16W	1%	±250 ppm	9C06031A4R30F	Tape & Reel
4.32 OHM	1/16W	1%	±250 ppm	9C06031A4R32F	Tape & Reel
4.42 OHM	1/16W	1%	±250 ppm	9C06031A4R42F	Tape & Reel
4.53 OHM	1/16W	1%	±250 ppm	9C06031A4R53F	Tape & Reel
4.64 OHM	1/16W	1%	±250 ppm	9C06031A4R64F	Tape & Reel
4.7 OHM	1/16W	1%	±250 ppm	9C06031A4R70F	Tape & Reel
4.75 OHM	1/16W	1%	±250 ppm	9C06031A4R75F	Tape & Reel
4.87 OHM	1/16W	1%	±250 ppm	9C06031A4R87F	Tape & Reel
4.99 OHM	1/16W	1%	±250 ppm	9C06031A4R99F	Tape & Reel
5.1 OHM	1/16W	1%	±200 ppm	9C06031A5R10F	Tape & Reel
5.11 OHM	1/16W	1%	±200 ppm	9C06031A5R11F	Tape & Reel
5.23 OHM	1/16W	1%	±200 ppm	9C06031A5R23F	Tape & Reel
5.36 OHM	1/16W	1%	±200 ppm	9C06031A5R36F	Tape & Reel
5.49 OHM	1/16W	1%	±200 ppm	9C06031A5R49F	Tape & Reel
5.6 OHM	1/16W	1%	±200 ppm	9C06031A5R60F	Tape & Reel
5.62 OHM	1/16W	1%	±200 ppm	9C06031A5R62F	Tape & Reel
5.76 OHM	1/16W	1%	±200 ppm	9C06031A5R76F	Tape & Reel
5.9 OHM	1/16W	1%	±200 ppm	9C06031A5R90F	Tape & Reel
6.04 OHM	1/16W	1%	±200 ppm	9C06031A6R04F	Tape & Reel
6.19 OHM	1/16W	1%	±200 ppm	9C06031A6R19F	Tape & Reel
6.2 OHM	1/16W	1%	±200 ppm	9C06031A6R20F	Tape & Reel
6.34 OHM	1/16W	1%	±200 ppm	9C06031A6R34F	Tape & Reel
6.49 OHM	1/16W	1%	±200 ppm	9C06031A6R49F	Tape & Reel
6.65 OHM	1/16W	1%	±200 ppm	9C06031A6R65F	Tape & Reel
6.8 OHM	1/16W	1%	±200 ppm	9C06031A6R80F	Tape & Reel
6.81 OHM	1/16W	1%	±200 ppm	9C06031A6R81F	Tape & Reel
6.98 OHM	1/16W	1%	±200 ppm	9C06031A6R98F	Tape & Reel
7.15 OHM	1/16W	1%	±200 ppm	9C06031A7R15F	Tape & Reel
7.32 OHM	1/16W	1%	±200 ppm	9C06031A7R32F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
7.5 OHM	1/16W	1%	±200 ppm	9C06031A7R50F	Tape & Reel
7.68 OHM	1/16W	1%	±200 ppm	9C06031A7R68F	Tape & Reel
7.87 OHM	1/16W	1%	±200 ppm	9C06031A7R87F	Tape & Reel
8.06 OHM	1/16W	1%	±200 ppm	9C06031A8R06F	Tape & Reel
8.2 OHM	1/16W	1%	±200 ppm	9C06031A8R20F	Tape & Reel
8.25 OHM	1/16W	1%	±200 ppm	9C06031A8R25F	Tape & Reel
8.45 OHM	1/16W	1%	±200 ppm	9C06031A8R45F	Tape & Reel
8.66 OHM	1/16W	1%	±200 ppm	9C06031A8R66F	Tape & Reel
8.87 OHM	1/16W	1%	±200 ppm	9C06031A8R87F	Tape & Reel
9.09 OHM	1/16W	1%	±200 ppm	9C06031A9R09F	Tape & Reel
9.1 OHM	1/16W	1%	±200 ppm	9C06031A9R10F	Tape & Reel
9.31 OHM	1/16W	1%	±200 ppm	9C06031A9R31F	Tape & Reel
9.53 OHM	1/16W	1%	±200 ppm	9C06031A9R53F	Tape & Reel
9.76 OHM	1/16W	1%	±200 ppm	9C06031A9R76F	Tape & Reel
10.0 OHM	1/16W	1%	±200 ppm	9C06031A10R0F	Tape & Reel
10.2 OHM	1/16W	1%	±200 ppm	9C06031A10R2F	Tape & Reel
10.5 OHM	1/16W	1%	±200 ppm	9C06031A10R5F	Tape & Reel
10.7 OHM	1/16W	1%	±200 ppm	9C06031A10R7F	Tape & Reel
11.0 OHM	1/16W	1%	±200 ppm	9C06031A11R0F	Tape & Reel
11.3 OHM	1/16W	1%	±200 ppm	9C06031A11R3F	Tape & Reel
11.5 OHM	1/16W	1%	±200 ppm	9C06031A11R5F	Tape & Reel
11.8 OHM	1/16W	1%	±200 ppm	9C06031A11R8F	Tape & Reel
12.0 OHM	1/16W	1%	±200 ppm	9C06031A12R0F	Tape & Reel
12.1 OHM	1/16W	1%	±200 ppm	9C06031A12R1F	Tape & Reel
12.4 OHM	1/16W	1%	±200 ppm	9C06031A12R4F	Tape & Reel
12.7 OHM	1/16W	1%	±200 ppm	9C06031A12R7F	Tape & Reel
13.0 OHM	1/16W	1%	±200 ppm	9C06031A13R0F	Tape & Reel
13.3 OHM	1/16W	1%	±200 ppm	9C06031A13R3F	Tape & Reel
13.7 OHM	1/16W	1%	±200 ppm	9C06031A13R7F	Tape & Reel
14.0 OHM	1/16W	1%	±200 ppm	9C06031A14R0F	Tape & Reel
14.3 OHM	1/16W	1%	±200 ppm	9C06031A14R3F	Tape & Reel
14.7 OHM	1/16W	1%	±200 ppm	9C06031A14R7F	Tape & Reel
15.0 OHM	1/16W	1%	±200 ppm	9C06031A15R0F	Tape & Reel
15.4 OHM	1/16W	1%	±200 ppm	9C06031A15R4F	Tape & Reel
15.8 OHM	1/16W	1%	±200 ppm	9C06031A15R8F	Tape & Reel
16.0 OHM	1/16W	1%	±200 ppm	9C06031A16R0F	Tape & Reel
16.2 OHM	1/16W	1%	±200 ppm	9C06031A16R2F	Tape & Reel
16.5 OHM	1/16W	1%	±200 ppm	9C06031A16R5F	Tape & Reel
16.9 OHM	1/16W	1%	±200 ppm	9C06031A16R9F	Tape & Reel
17.4 OHM	1/16W	1%	±200 ppm	9C06031A17R4F	Tape & Reel
17.8 OHM	1/16W	1%	±200 ppm	9C06031A17R8F	Tape & Reel
18.0 OHM	1/16W	1%	±200 ppm	9C06031A18R0F	Tape & Reel
18.2 OHM	1/16W	1%	±200 ppm	9C06031A18R2F	Tape & Reel
18.7 OHM	1/16W	1%	±200 ppm	9C06031A18R7F	Tape & Reel
19.1 OHM	1/16W	1%	±200 ppm	9C06031A19R1F	Tape & Reel
19.6 OHM	1/16W	1%	±200 ppm	9C06031A19R6F	Tape & Reel
20.0 OHM	1/16W	1%	±200 ppm	9C06031A20R0F	Tape & Reel
20.5 OHM	1/16W	1%	±200 ppm	9C06031A20R5F	Tape & Reel
21.0 OHM	1/16W	1%	±200 ppm	9C06031A21R0F	Tape & Reel
22.0 OHM	1/16W	1%	±200 ppm	9C06031A22R0F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
22.1 OHM	1/16W	1%	±200 ppm	9C06031A22R1F	Tape & Reel
22.6 OHM	1/16W	1%	±200 ppm	9C06031A22R6F	Tape & Reel
23.2 OHM	1/16W	1%	±200 ppm	9C06031A23R2F	Tape & Reel
23.7 OHM	1/16W	1%	±200 ppm	9C06031A23R7F	Tape & Reel
24.0 OHM	1/16W	1%	±200 ppm	9C06031A24R0F	Tape & Reel
24.3 OHM	1/16W	1%	±200 ppm	9C06031A24R3F	Tape & Reel
24.9 OHM	1/16W	1%	±200 ppm	9C06031A24R9F	Tape & Reel
25.5 OHM	1/16W	1%	±200 ppm	9C06031A25R5F	Tape & Reel
26.1 OHM	1/16W	1%	±200 ppm	9C06031A26R1F	Tape & Reel
26.7 OHM	1/16W	1%	±200 ppm	9C06031A26R7F	Tape & Reel
27.0 OHM	1/16W	1%	±200 ppm	9C06031A27R0F	Tape & Reel
27.4 OHM	1/16W	1%	±200 ppm	9C06031A27R4F	Tape & Reel
28.0 OHM	1/16W	1%	±200 ppm	9C06031A28R0F	Tape & Reel
28.7 OHM	1/16W	1%	±200 ppm	9C06031A28R7F	Tape & Reel
29.4 OHM	1/16W	1%	±200 ppm	9C06031A29R4F	Tape & Reel
30.0 OHM	1/16W	1%	±200 ppm	9C06031A30R0F	Tape & Reel
30.1 OHM	1/16W	1%	±200 ppm	9C06031A30R1F	Tape & Reel
30.9 OHM	1/16W	1%	±200 ppm	9C06031A30R9F	Tape & Reel
31.6 OHM	1/16W	1%	±200 ppm	9C06031A31R6F	Tape & Reel
32.4 OHM	1/16W	1%	±200 ppm	9C06031A32R4F	Tape & Reel
33.0 OHM	1/16W	1%	±200 ppm	9C06031A33R0F	Tape & Reel
33.2 OHM	1/16W	1%	±200 ppm	9C06031A33R2F	Tape & Reel
34.0 OHM	1/16W	1%	±200 ppm	9C06031A34R0F	Tape & Reel
34.8 OHM	1/16W	1%	±200 ppm	9C06031A34R8F	Tape & Reel
35.7 OHM	1/16W	1%	±200 ppm	9C06031A35R7F	Tape & Reel
36.0 OHM	1/16W	1%	±200 ppm	9C06031A36R0F	Tape & Reel
36.5 OHM	1/16W	1%	±200 ppm	9C06031A36R5F	Tape & Reel
37.4 OHM	1/16W	1%	±200 ppm	9C06031A37R4F	Tape & Reel
38.3 OHM	1/16W	1%	±200 ppm	9C06031A38R3F	Tape & Reel
39.0 OHM	1/16W	1%	±200 ppm	9C06031A39R0F	Tape & Reel
39.2 OHM	1/16W	1%	±200 ppm	9C06031A39R2F	Tape & Reel
40.2 OHM	1/16W	1%	±200 ppm	9C06031A40R2F	Tape & Reel
41.2 OHM	1/16W	1%	±200 ppm	9C06031A41R2F	Tape & Reel
42.2 OHM	1/16W	1%	±200 ppm	9C06031A42R2F	Tape & Reel
43.0 OHM	1/16W	1%	±200 ppm	9C06031A43R0F	Tape & Reel
43.2 OHM	1/16W	1%	±200 ppm	9C06031A43R2F	Tape & Reel
44.2 OHM	1/16W	1%	±200 ppm	9C06031A44R2F	Tape & Reel
45.3 OHM	1/16W	1%	±200 ppm	9C06031A45R3F	Tape & Reel
46.4 OHM	1/16W	1%	±200 ppm	9C06031A46R4F	Tape & Reel
47.0 OHM	1/16W	1%	±200 ppm	9C06031A47R0F	Tape & Reel
47.5 OHM	1/16W	1%	±200 ppm	9C06031A47R5F	Tape & Reel
48.7 OHM	1/16W	1%	±200 ppm	9C06031A48R7F	Tape & Reel
49.9 OHM	1/16W	1%	±200 ppm	9C06031A49R9F	Tape & Reel
51.0 OHM	1/16W	1%	±200 ppm	9C06031A51R0F	Tape & Reel
51.1 OHM	1/16W	1%	±200 ppm	9C06031A51R1F	Tape & Reel
52.3 OHM	1/16W	1%	±200 ppm	9C06031A52R3F	Tape & Reel
53.6 OHM	1/16W	1%	±200 ppm	9C06031A53R6F	Tape & Reel
54.9 OHM	1/16W	1%	±200 ppm	9C06031A54R9F	Tape & Reel
56.0 OHM	1/16W	1%	±200 ppm	9C06031A56R0F	Tape & Reel
56.2 OHM	1/16W	1%	±200 ppm	9C06031A56R2F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
57.6 OHM	1/16W	1%	±200 ppm	9C06031A57R6F	Tape & Reel
59.0 OHM	1/16W	1%	±200 ppm	9C06031A59R0F	Tape & Reel
60.4 OHM	1/16W	1%	±200 ppm	9C06031A60R4F	Tape & Reel
61.9 OHM	1/16W	1%	±200 ppm	9C06031A61R9F	Tape & Reel
62.0 OHM	1/16W	1%	±200 ppm	9C06031A62R0F	Tape & Reel
63.4 OHM	1/16W	1%	±200 ppm	9C06031A63R4F	Tape & Reel
64.9 OHM	1/16W	1%	±200 ppm	9C06031A64R9F	Tape & Reel
66.5 OHM	1/16W	1%	±200 ppm	9C06031A66R5F	Tape & Reel
68.0 OHM	1/16W	1%	±200 ppm	9C06031A68R0F	Tape & Reel
68.1 OHM	1/16W	1%	±200 ppm	9C06031A68R1F	Tape & Reel
69.8 OHM	1/16W	1%	±200 ppm	9C06031A69R8F	Tape & Reel
71.5 OHM	1/16W	1%	±200 ppm	9C06031A71R5F	Tape & Reel
73.2 OHM	1/16W	1%	±200 ppm	9C06031A73R2F	Tape & Reel
75.0 OHM	1/16W	1%	±200 ppm	9C06031A75R0F	Tape & Reel
76.8 OHM	1/16W	1%	±200 ppm	9C06031A76R8F	Tape & Reel
78.7 OHM	1/16W	1%	±200 ppm	9C06031A78R7F	Tape & Reel
80.6 OHM	1/16W	1%	±200 ppm	9C06031A80R6F	Tape & Reel
82.0 OHM	1/16W	1%	±200 ppm	9C06031A82R0F	Tape & Reel
82.5 OHM	1/16W	1%	±200 ppm	9C06031A82R5F	Tape & Reel
84.5 OHM	1/16W	1%	±200 ppm	9C06031A84R5F	Tape & Reel
86.6 OHM	1/16W	1%	±200 ppm	9C06031A86R6F	Tape & Reel
88.7 OHM	1/16W	1%	±200 ppm	9C06031A88R7F	Tape & Reel
90.9 OHM	1/16W	1%	±200 ppm	9C06031A90R9F	Tape & Reel
91.0 OHM	1/16W	1%	±200 ppm	9C06031A91R0F	Tape & Reel
93.1 OHM	1/16W	1%	±200 ppm	9C06031A93R1F	Tape & Reel
95.3 OHM	1/16W	1%	±200 ppm	9C06031A95R3F	Tape & Reel
97.6 OHM	1/16W	1%	±200 ppm	9C06031A97R6F	Tape & Reel
100 OHM	1/16W	1%	±100 ppm	9C06031A1000F	Tape & Reel
102 OHM	1/16W	1%	±100 ppm	9C06031A1020F	Tape & Reel
105 OHM	1/16W	1%	±100 ppm	9C06031A1050F	Tape & Reel
107 OHM	1/16W	1%	±100 ppm	9C06031A1070F	Tape & Reel
110 OHM	1/16W	1%	±100 ppm	9C06031A1100F	Tape & Reel
113 OHM	1/16W	1%	±100 ppm	9C06031A1130F	Tape & Reel
115 OHM	1/16W	1%	±100 ppm	9C06031A1150F	Tape & Reel
118 OHM	1/16W	1%	±100 ppm	9C06031A1180F	Tape & Reel
120 OHM	1/16W	1%	±100 ppm	9C06031A1200F	Tape & Reel
121 OHM	1/16W	1%	±100 ppm	9C06031A1210F	Tape & Reel
124 OHM	1/16W	1%	±100 ppm	9C06031A1240F	Tape & Reel
127 OHM	1/16W	1%	±100 ppm	9C06031A1270F	Tape & Reel
130 OHM	1/16W	1%	±100 ppm	9C06031A1300F	Tape & Reel
133 OHM	1/16W	1%	±100 ppm	9C06031A1330F	Tape & Reel
137 OHM	1/16W	1%	±100 ppm	9C06031A1370F	Tape & Reel
140 OHM	1/16W	1%	±100 ppm	9C06031A1400F	Tape & Reel
143 OHM	1/16W	1%	±100 ppm	9C06031A1430F	Tape & Reel
147 OHM	1/16W	1%	±100 ppm	9C06031A1470F	Tape & Reel
150 OHM	1/16W	1%	±100 ppm	9C06031A1500F	Tape & Reel
154 OHM	1/16W	1%	±100 ppm	9C06031A1540F	Tape & Reel
158 OHM	1/16W	1%	±100 ppm	9C06031A1580F	Tape & Reel
160 OHM	1/16W	1%	±100 ppm	9C06031A1600F	Tape & Reel
162 OHM	1/16W	1%	±100 ppm	9C06031A1620F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
165 OHM	1/16W	1%	±100 ppm	9C06031A1650F	Tape & Reel
169 OHM	1/16W	1%	±100 ppm	9C06031A1690F	Tape & Reel
174 OHM	1/16W	1%	±100 ppm	9C06031A1740F	Tape & Reel
178 OHM	1/16W	1%	±100 ppm	9C06031A1780F	Tape & Reel
180 OHM	1/16W	1%	±100 ppm	9C06031A1800F	Tape & Reel
182 OHM	1/16W	1%	±100 ppm	9C06031A1820F	Tape & Reel
187 OHM	1/16W	1%	±100 ppm	9C06031A1870F	Tape & Reel
191 OHM	1/16W	1%	±100 ppm	9C06031A1910F	Tape & Reel
196 OHM	1/16W	1%	±100 ppm	9C06031A1960F	Tape & Reel
200 OHM	1/16W	1%	±100 ppm	9C06031A2000F	Tape & Reel
205 OHM	1/16W	1%	±100 ppm	9C06031A2050F	Tape & Reel
210 OHM	1/16W	1%	±100 ppm	9C06031A2100F	Tape & Reel
215 OHM	1/16W	1%	±100 ppm	9C06031A2150F	Tape & Reel
220 OHM	1/16W	1%	±100 ppm	9C06031A2200F	Tape & Reel
221 OHM	1/16W	1%	±100 ppm	9C06031A2210F	Tape & Reel
226 OHM	1/16W	1%	±100 ppm	9C06031A2260F	Tape & Reel
232 OHM	1/16W	1%	±100 ppm	9C06031A2320F	Tape & Reel
237 OHM	1/16W	1%	±100 ppm	9C06031A2370F	Tape & Reel
240 OHM	1/16W	1%	±100 ppm	9C06031A2400F	Tape & Reel
243 OHM	1/16W	1%	±100 ppm	9C06031A2430F	Tape & Reel
249 OHM	1/16W	1%	±100 ppm	9C06031A2490F	Tape & Reel
255 OHM	1/16W	1%	±100 ppm	9C06031A2550F	Tape & Reel
261 OHM	1/16W	1%	±100 ppm	9C06031A2610F	Tape & Reel
267 OHM	1/16W	1%	±100 ppm	9C06031A2670F	Tape & Reel
270 OHM	1/16W	1%	±100 ppm	9C06031A2700F	Tape & Reel
274 OHM	1/16W	1%	±100 ppm	9C06031A2740F	Tape & Reel
280 OHM	1/16W	1%	±100 ppm	9C06031A2800F	Tape & Reel
287 OHM	1/16W	1%	±100 ppm	9C06031A2870F	Tape & Reel
294 OHM	1/16W	1%	±100 ppm	9C06031A2940F	Tape & Reel
300 OHM	1/16W	1%	±100 ppm	9C06031A3000F	Tape & Reel
301 OHM	1/16W	1%	±100 ppm	9C06031A3010F	Tape & Reel
309 OHM	1/16W	1%	±100 ppm	9C06031A3090F	Tape & Reel
316 OHM	1/16W	1%	±100 ppm	9C06031A3160F	Tape & Reel
324 OHM	1/16W	1%	±100 ppm	9C06031A3240F	Tape & Reel
330 OHM	1/16W	1%	±100 ppm	9C06031A3300F	Tape & Reel
332 OHM	1/16W	1%	±100 ppm	9C06031A3320F	Tape & Reel
340 OHM	1/16W	1%	±100 ppm	9C06031A3400F	Tape & Reel
348 OHM	1/16W	1%	±100 ppm	9C06031A3480F	Tape & Reel
357 OHM	1/16W	1%	±100 ppm	9C06031A3570F	Tape & Reel
360 OHM	1/16W	1%	±100 ppm	9C06031A3600F	Tape & Reel
365 OHM	1/16W	1%	±100 ppm	9C06031A3650F	Tape & Reel
374 OHM	1/16W	1%	±100 ppm	9C06031A3740F	Tape & Reel
382 OHM	1/16W	1%	±100 ppm	9C06031A3820F	Tape & Reel
383 OHM	1/16W	1%	±100 ppm	9C06031A3830F	Tape & Reel
390 OHM	1/16W	1%	±100 ppm	9C06031A3900F	Tape & Reel
402 OHM	1/16W	1%	±100 ppm	9C06031A4020F	Tape & Reel
412 OHM	1/16W	1%	±100 ppm	9C06031A4120F	Tape & Reel
422 OHM	1/16W	1%	±100 ppm	9C06031A4220F	Tape & Reel
430 OHM	1/16W	1%	±100 ppm	9C06031A4300F	Tape & Reel
432 OHM	1/16W	1%	±100 ppm	9C06031A4320F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
442 OHM	1/16W	1%	±100 ppm	9C06031A4420F	Tape & Reel
453 OHM	1/16W	1%	±100 ppm	9C06031A4530F	Tape & Reel
464 OHM	1/16W	1%	±100 ppm	9C06031A4640F	Tape & Reel
470 OHM	1/16W	1%	±100 ppm	9C06031A4700F	Tape & Reel
475 OHM	1/16W	1%	±100 ppm	9C06031A4750F	Tape & Reel
487 OHM	1/16W	1%	±100 ppm	9C06031A4870F	Tape & Reel
499 OHM	1/16W	1%	±100 ppm	9C06031A4990F	Tape & Reel
510 OHM	1/16W	1%	±100 ppm	9C06031A5100F	Tape & Reel
511 OHM	1/16W	1%	±100 ppm	9C06031A5110F	Tape & Reel
523 OHM	1/16W	1%	±100 ppm	9C06031A5230F	Tape & Reel
536 OHM	1/16W	1%	±100 ppm	9C06031A5360F	Tape & Reel
549 OHM	1/16W	1%	±100 ppm	9C06031A5490F	Tape & Reel
560 OHM	1/16W	1%	±100 ppm	9C06031A5600F	Tape & Reel
562 OHM	1/16W	1%	±100 ppm	9C06031A5620F	Tape & Reel
576 OHM	1/16W	1%	±100 ppm	9C06031A5760F	Tape & Reel
590 OHM	1/16W	1%	±100 ppm	9C06031A5900F	Tape & Reel
604 OHM	1/16W	1%	±100 ppm	9C06031A6040F	Tape & Reel
619 OHM	1/16W	1%	±100 ppm	9C06031A6190F	Tape & Reel
620 OHM	1/16W	1%	±100 ppm	9C06031A6200F	Tape & Reel
634 OHM	1/16W	1%	±100 ppm	9C06031A6340F	Tape & Reel
649 OHM	1/16W	1%	±100 ppm	9C06031A6490F	Tape & Reel
665 OHM	1/16W	1%	±100 ppm	9C06031A6650F	Tape & Reel
680 OHM	1/16W	1%	±100 ppm	9C06031A6800F	Tape & Reel
681 OHM	1/16W	1%	±100 ppm	9C06031A6810F	Tape & Reel
698 OHM	1/16W	1%	±100 ppm	9C06031A6980F	Tape & Reel
715 OHM	1/16W	1%	±100 ppm	9C06031A7150F	Tape & Reel
732 OHM	1/16W	1%	±100 ppm	9C06031A7320F	Tape & Reel
750 OHM	1/16W	1%	±100 ppm	9C06031A7500F	Tape & Reel
768 OHM	1/16W	1%	±100 ppm	9C06031A7680F	Tape & Reel
787 OHM	1/16W	1%	±100 ppm	9C06031A7870F	Tape & Reel
806 OHM	1/16W	1%	±100 ppm	9C06031A8060F	Tape & Reel
820 OHM	1/16W	1%	±100 ppm	9C06031A8200F	Tape & Reel
825 OHM	1/16W	1%	±100 ppm	9C06031A8250F	Tape & Reel
845 OHM	1/16W	1%	±100 ppm	9C06031A8450F	Tape & Reel
866 OHM	1/16W	1%	±100 ppm	9C06031A8660F	Tape & Reel
887 OHM	1/16W	1%	±100 ppm	9C06031A8870F	Tape & Reel
909 OHM	1/16W	1%	±100 ppm	9C06031A9090F	Tape & Reel
910 OHM	1/16W	1%	±100 ppm	9C06031A9100F	Tape & Reel
931 OHM	1/16W	1%	±100 ppm	9C06031A9310F	Tape & Reel
953 OHM	1/16W	1%	±100 ppm	9C06031A9530F	Tape & Reel
976 OHM	1/16W	1%	±100 ppm	9C06031A9760F	Tape & Reel
1.00K OHM	1/16W	1%	±100 ppm	9C06031A1001F	Tape & Reel
1.02K OHM	1/16W	1%	±100 ppm	9C06031A1021F	Tape & Reel
1.05K OHM	1/16W	1%	±100 ppm	9C06031A1051F	Tape & Reel
1.07K OHM	1/16W	1%	±100 ppm	9C06031A1071F	Tape & Reel
1.1K OHM	1/16W	1%	±100 ppm	9C06031A1101F	Tape & Reel
1.13K OHM	1/16W	1%	±100 ppm	9C06031A1131F	Tape & Reel
1.15K OHM	1/16W	1%	±100 ppm	9C06031A1151F	Tape & Reel
1.18K OHM	1/16W	1%	±100 ppm	9C06031A1181F	Tape & Reel
1.2K OHM	1/16W	1%	±100 ppm	9C06031A1201F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.21K OHM	1/16W	1%	±100 ppm	9C06031A1211F	Tape & Reel
1.24K OHM	1/16W	1%	±100 ppm	9C06031A1241F	Tape & Reel
1.27K OHM	1/16W	1%	±100 ppm	9C06031A1271F	Tape & Reel
1.3K OHM	1/16W	1%	±100 ppm	9C06031A1301F	Tape & Reel
1.33K OHM	1/16W	1%	±100 ppm	9C06031A1331F	Tape & Reel
1.37K OHM	1/16W	1%	±100 ppm	9C06031A1371F	Tape & Reel
1.4K OHM	1/16W	1%	±100 ppm	9C06031A1401F	Tape & Reel
1.43K OHM	1/16W	1%	±100 ppm	9C06031A1431F	Tape & Reel
1.47K OHM	1/16W	1%	±100 ppm	9C06031A1471F	Tape & Reel
1.50K OHM	1/16W	1%	±100 ppm	9C06031A1501F	Tape & Reel
1.54K OHM	1/16W	1%	±100 ppm	9C06031A1541F	Tape & Reel
1.58K OHM	1/16W	1%	±100 ppm	9C06031A1581F	Tape & Reel
1.6K OHM	1/16W	1%	±100 ppm	9C06031A1601F	Tape & Reel
1.62K OHM	1/16W	1%	±100 ppm	9C06031A1621F	Tape & Reel
1.65K OHM	1/16W	1%	±100 ppm	9C06031A1651F	Tape & Reel
1.69K OHM	1/16W	1%	±100 ppm	9C06031A1691F	Tape & Reel
1.74K OHM	1/16W	1%	±100 ppm	9C06031A1741F	Tape & Reel
1.78K OHM	1/16W	1%	±100 ppm	9C06031A1781F	Tape & Reel
1.80K OHM	1/16W	1%	±100 ppm	9C06031A1801F	Tape & Reel
1.82K OHM	1/16W	1%	±100 ppm	9C06031A1821F	Tape & Reel
1.87K OHM	1/16W	1%	±100 ppm	9C06031A1871F	Tape & Reel
1.91K OHM	1/16W	1%	±100 ppm	9C06031A1911F	Tape & Reel
1.96K OHM	1/16W	1%	±100 ppm	9C06031A1961F	Tape & Reel
2.00K OHM	1/16W	1%	±100 ppm	9C06031A2001F	Tape & Reel
2.05K OHM	1/16W	1%	±100 ppm	9C06031A2051F	Tape & Reel
2.10K OHM	1/16W	1%	±100 ppm	9C06031A2101F	Tape & Reel
2.15K OHM	1/16W	1%	±100 ppm	9C06031A2151F	Tape & Reel
2.20K OHM	1/16W	1%	±100 ppm	9C06031A2201F	Tape & Reel
2.21K OHM	1/16W	1%	±100 ppm	9C06031A2211F	Tape & Reel
2.26K OHM	1/16W	1%	±100 ppm	9C06031A2261F	Tape & Reel
2.32K OHM	1/16W	1%	±100 ppm	9C06031A2321F	Tape & Reel
2.37K OHM	1/16W	1%	±100 ppm	9C06031A2371F	Tape & Reel
2.40K OHM	1/16W	1%	±100 ppm	9C06031A2401F	Tape & Reel
2.43K OHM	1/16W	1%	±100 ppm	9C06031A2431F	Tape & Reel
2.49K OHM	1/16W	1%	±100 ppm	9C06031A2491F	Tape & Reel
2.55K OHM	1/16W	1%	±100 ppm	9C06031A2551F	Tape & Reel
2.61K OHM	1/16W	1%	±100 ppm	9C06031A2611F	Tape & Reel
2.67K OHM	1/16W	1%	±100 ppm	9C06031A2671F	Tape & Reel
2.70K OHM	1/16W	1%	±100 ppm	9C06031A2701F	Tape & Reel
2.74K OHM	1/16W	1%	±100 ppm	9C06031A2741F	Tape & Reel
2.80K OHM	1/16W	1%	±100 ppm	9C06031A2801F	Tape & Reel
2.87K OHM	1/16W	1%	±100 ppm	9C06031A2871F	Tape & Reel
2.94K OHM	1/16W	1%	±100 ppm	9C06031A2941F	Tape & Reel
3.00K OHM	1/16W	1%	±100 ppm	9C06031A3001F	Tape & Reel
3.01K OHM	1/16W	1%	±100 ppm	9C06031A3011F	Tape & Reel
3.09K OHM	1/16W	1%	±100 ppm	9C06031A3091F	Tape & Reel
3.16K OHM	1/16W	1%	±100 ppm	9C06031A3161F	Tape & Reel
3.24K OHM	1/16W	1%	±100 ppm	9C06031A3241F	Tape & Reel
3.30K OHM	1/16W	1%	±100 ppm	9C06031A3301F	Tape & Reel
3.32K OHM	1/16W	1%	±100 ppm	9C06031A3321F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
3.40K OHM	1/16W	1%	±100 ppm	9C06031A3401F	Tape & Reel
3.48K OHM	1/16W	1%	±100 ppm	9C06031A3481F	Tape & Reel
3.57K OHM	1/16W	1%	±100 ppm	9C06031A3571F	Tape & Reel
3.60K OHM	1/16W	1%	±100 ppm	9C06031A3601F	Tape & Reel
3.65K OHM	1/16W	1%	±100 ppm	9C06031A3651F	Tape & Reel
3.74K OHM	1/16W	1%	±100 ppm	9C06031A3741F	Tape & Reel
3.83K OHM	1/16W	1%	±100 ppm	9C06031A3831F	Tape & Reel
3.92K OHM	1/16W	1%	±100 ppm	9C06031A3921F	Tape & Reel
3.90K OHM	1/16W	1%	±100 ppm	9C06031A3901F	Tape & Reel
4.02K OHM	1/16W	1%	±100 ppm	9C06031A4021F	Tape & Reel
4.12K OHM	1/16W	1%	±100 ppm	9C06031A4121F	Tape & Reel
4.22K OHM	1/16W	1%	±100 ppm	9C06031A4221F	Tape & Reel
4.30K OHM	1/16W	1%	±100 ppm	9C06031A4301F	Tape & Reel
4.32K OHM	1/16W	1%	±100 ppm	9C06031A4321F	Tape & Reel
4.42K OHM	1/16W	1%	±100 ppm	9C06031A4421F	Tape & Reel
4.53K OHM	1/16W	1%	±100 ppm	9C06031A4531F	Tape & Reel
4.64K OHM	1/16W	1%	±100 ppm	9C06031A4641F	Tape & Reel
4.75K OHM	1/16W	1%	±100 ppm	9C06031A4751F	Tape & Reel
4.70K OHM	1/16W	1%	±100 ppm	9C06031A4701F	Tape & Reel
4.87K OHM	1/16W	1%	±100 ppm	9C06031A4871F	Tape & Reel
4.99K OHM	1/16W	1%	±100 ppm	9C06031A4991F	Tape & Reel
5.10K OHM	1/16W	1%	±100 ppm	9C06031A5101F	Tape & Reel
5.11K OHM	1/16W	1%	±100 ppm	9C06031A5111F	Tape & Reel
5.23K OHM	1/16W	1%	±100 ppm	9C06031A5231F	Tape & Reel
5.36K OHM	1/16W	1%	±100 ppm	9C06031A5361F	Tape & Reel
5.49K OHM	1/16W	1%	±100 ppm	9C06031A5491F	Tape & Reel
5.60K OHM	1/16W	1%	±100 ppm	9C06031A5601F	Tape & Reel
5.62K OHM	1/16W	1%	±100 ppm	9C06031A5621F	Tape & Reel
5.76K OHM	1/16W	1%	±100 ppm	9C06031A5761F	Tape & Reel
5.90K OHM	1/16W	1%	±100 ppm	9C06031A5901F	Tape & Reel
6.04K OHM	1/16W	1%	±100 ppm	9C06031A6041F	Tape & Reel
6.19K OHM	1/16W	1%	±100 ppm	9C06031A6191F	Tape & Reel
6.20K OHM	1/16W	1%	±100 ppm	9C06031A6201F	Tape & Reel
6.34K OHM	1/16W	1%	±100 ppm	9C06031A6341F	Tape & Reel
6.49K OHM	1/16W	1%	±100 ppm	9C06031A6491F	Tape & Reel
6.65K OHM	1/16W	1%	±100 ppm	9C06031A6651F	Tape & Reel
6.80K OHM	1/16W	1%	±100 ppm	9C06031A6801F	Tape & Reel
6.81K OHM	1/16W	1%	±100 ppm	9C06031A6811F	Tape & Reel
6.98K OHM	1/16W	1%	±100 ppm	9C06031A6981F	Tape & Reel
7.15K OHM	1/16W	1%	±100 ppm	9C06031A7151F	Tape & Reel
7.32K OHM	1/16W	1%	±100 ppm	9C06031A7321F	Tape & Reel
7.50K OHM	1/16W	1%	±100 ppm	9C06031A7501F	Tape & Reel
7.68K OHM	1/16W	1%	±100 ppm	9C06031A7681F	Tape & Reel
7.87K OHM	1/16W	1%	±100 ppm	9C06031A7871F	Tape & Reel
8.06K OHM	1/16W	1%	±100 ppm	9C06031A8061F	Tape & Reel
8.20K OHM	1/16W	1%	±100 ppm	9C06031A8201F	Tape & Reel
8.25K OHM	1/16W	1%	±100 ppm	9C06031A8251F	Tape & Reel
8.45K OHM	1/16W	1%	±100 ppm	9C06031A8451F	Tape & Reel
8.66K OHM	1/16W	1%	±100 ppm	9C06031A8661F	Tape & Reel
8.87K OHM	1/16W	1%	±100 ppm	9C06031A8871F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
9.09K OHM	1/16W	1%	±100 ppm	9C06031A9091F	Tape & Reel
9.10K OHM	1/16W	1%	±100 ppm	9C06031A9101F	Tape & Reel
9.31K OHM	1/16W	1%	±100 ppm	9C06031A9311F	Tape & Reel
9.53K OHM	1/16W	1%	±100 ppm	9C06031A9531F	Tape & Reel
9.76K OHM	1/16W	1%	±100 ppm	9C06031A9761F	Tape & Reel
10.0K OHM	1/16W	1%	±100 ppm	9C06031A1002F	Tape & Reel
10.2K OHM	1/16W	1%	±100 ppm	9C06031A1022F	Tape & Reel
10.5K OHM	1/16W	1%	±100 ppm	9C06031A1052F	Tape & Reel
10.7K OHM	1/16W	1%	±100 ppm	9C06031A1072F	Tape & Reel
11.0K OHM	1/16W	1%	±100 ppm	9C06031A1102F	Tape & Reel
11.3K OHM	1/16W	1%	±100 ppm	9C06031A1132F	Tape & Reel
11.5K OHM	1/16W	1%	±100 ppm	9C06031A1152F	Tape & Reel
11.8K OHM	1/16W	1%	±100 ppm	9C06031A1182F	Tape & Reel
12.0K OHM	1/16W	1%	±100 ppm	9C06031A1202F	Tape & Reel
12.1K OHM	1/16W	1%	±100 ppm	9C06031A1212F	Tape & Reel
12.4K OHM	1/16W	1%	±100 ppm	9C06031A1242F	Tape & Reel
12.7K OHM	1/16W	1%	±100 ppm	9C06031A1272F	Tape & Reel
13.0K OHM	1/16W	1%	±100 ppm	9C06031A1302F	Tape & Reel
13.3K OHM	1/16W	1%	±100 ppm	9C06031A1332F	Tape & Reel
13.7K OHM	1/16W	1%	±100 ppm	9C06031A1372F	Tape & Reel
14.0K OHM	1/16W	1%	±100 ppm	9C06031A1402F	Tape & Reel
14.3K OHM	1/16W	1%	±100 ppm	9C06031A1432F	Tape & Reel
14.7K OHM	1/16W	1%	±100 ppm	9C06031A1472F	Tape & Reel
15.0K OHM	1/16W	1%	±100 ppm	9C06031A1502F	Tape & Reel
15.4K OHM	1/16W	1%	±100 ppm	9C06031A1542F	Tape & Reel
15.8K OHM	1/16W	1%	±100 ppm	9C06031A1582F	Tape & Reel
16.0K OHM	1/16W	1%	±100 ppm	9C06031A1602F	Tape & Reel
16.2K OHM	1/16W	1%	±100 ppm	9C06031A1622F	Tape & Reel
16.5K OHM	1/16W	1%	±100 ppm	9C06031A1652F	Tape & Reel
16.9K OHM	1/16W	1%	±100 ppm	9C06031A1692F	Tape & Reel
17.4K OHM	1/16W	1%	±100 ppm	9C06031A1742F	Tape & Reel
17.8K OHM	1/16W	1%	±100 ppm	9C06031A1782F	Tape & Reel
18.0K OHM	1/16W	1%	±100 ppm	9C06031A1802F	Tape & Reel
18.2K OHM	1/16W	1%	±100 ppm	9C06031A1822F	Tape & Reel
18.7K OHM	1/16W	1%	±100 ppm	9C06031A1872F	Tape & Reel
19.1K OHM	1/16W	1%	±100 ppm	9C06031A1912F	Tape & Reel
19.6K OHM	1/16W	1%	±100 ppm	9C06031A1962F	Tape & Reel
20.0K OHM	1/16W	1%	±100 ppm	9C06031A2002F	Tape & Reel
20.5K OHM	1/16W	1%	±100 ppm	9C06031A2052F	Tape & Reel
21.0K OHM	1/16W	1%	±100 ppm	9C06031A2102F	Tape & Reel
21.5K OHM	1/16W	1%	±100 ppm	9C06031A2152F	Tape & Reel
22.0K OHM	1/16W	1%	±100 ppm	9C06031A2202F	Tape & Reel
22.1K OHM	1/16W	1%	±100 ppm	9C06031A2212F	Tape & Reel
22.6K OHM	1/16W	1%	±100 ppm	9C06031A2262F	Tape & Reel
23.2K OHM	1/16W	1%	±100 ppm	9C06031A2322F	Tape & Reel
23.7K OHM	1/16W	1%	±100 ppm	9C06031A2372F	Tape & Reel
24.0K OHM	1/16W	1%	±100 ppm	9C06031A2402F	Tape & Reel
24.3K OHM	1/16W	1%	±100 ppm	9C06031A2432F	Tape & Reel
24.9K OHM	1/16W	1%	±100 ppm	9C06031A2492F	Tape & Reel
25.5K OHM	1/16W	1%	±100 ppm	9C06031A2552F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
26.1K OHM	1/16W	1%	±100 ppm	9C06031A2612F	Tape & Reel
26.7K OHM	1/16W	1%	±100 ppm	9C06031A2672F	Tape & Reel
27K OHM	1/16W	1%	±100 ppm	9C06031A2702F	Tape & Reel
27.4K OHM	1/16W	1%	±100 ppm	9C06031A2742F	Tape & Reel
28K OHM	1/16W	1%	±100 ppm	9C06031A2802F	Tape & Reel
28.7K OHM	1/16W	1%	±100 ppm	9C06031A2872F	Tape & Reel
29.4K OHM	1/16W	1%	±100 ppm	9C06031A2942F	Tape & Reel
30K OHM	1/16W	1%	±100 ppm	9C06031A3002F	Tape & Reel
30.1K OHM	1/16W	1%	±100 ppm	9C06031A3012F	Tape & Reel
30.9K OHM	1/16W	1%	±100 ppm	9C06031A3092F	Tape & Reel
31.6K OHM	1/16W	1%	±100 ppm	9C06031A3162F	Tape & Reel
32.4K OHM	1/16W	1%	±100 ppm	9C06031A3242F	Tape & Reel
33K OHM	1/16W	1%	±100 ppm	9C06031A3302F	Tape & Reel
33.2K OHM	1/16W	1%	±100 ppm	9C06031A3322F	Tape & Reel
34K OHM	1/16W	1%	±100 ppm	9C06031A3402F	Tape & Reel
34.8K OHM	1/16W	1%	±100 ppm	9C06031A3482F	Tape & Reel
35.7K OHM	1/16W	1%	±100 ppm	9C06031A3572F	Tape & Reel
36K OHM	1/16W	1%	±100 ppm	9C06031A3602F	Tape & Reel
36.5K OHM	1/16W	1%	±100 ppm	9C06031A3652F	Tape & Reel
37.4K OHM	1/16W	1%	±100 ppm	9C06031A3742F	Tape & Reel
38.3K OHM	1/16W	1%	±100 ppm	9C06031A3832F	Tape & Reel
39K OHM	1/16W	1%	±100 ppm	9C06031A3902F	Tape & Reel
39.2K OHM	1/16W	1%	±100 ppm	9C06031A3922F	Tape & Reel
40.2K OHM	1/16W	1%	±100 ppm	9C06031A4022F	Tape & Reel
41.2K OHM	1/16W	1%	±100 ppm	9C06031A4122F	Tape & Reel
42.2K OHM	1/16W	1%	±100 ppm	9C06031A4222F	Tape & Reel
43K OHM	1/16W	1%	±100 ppm	9C06031A4302F	Tape & Reel
43.2K OHM	1/16W	1%	±100 ppm	9C06031A4322F	Tape & Reel
44.2K OHM	1/16W	1%	±100 ppm	9C06031A4422F	Tape & Reel
45.3K OHM	1/16W	1%	±100 ppm	9C06031A4532F	Tape & Reel
46.4K OHM	1/16W	1%	±100 ppm	9C06031A4642F	Tape & Reel
47K OHM	1/16W	1%	±100 ppm	9C06031A4702F	Tape & Reel
47.5K OHM	1/16W	1%	±100 ppm	9C06031A4752F	Tape & Reel
48.7K OHM	1/16W	1%	±100 ppm	9C06031A4872F	Tape & Reel
49.9K OHM	1/16W	1%	±100 ppm	9C06031A4992F	Tape & Reel
51K OHM	1/16W	1%	±100 ppm	9C06031A5102F	Tape & Reel
51.1K OHM	1/16W	1%	±100 ppm	9C06031A5112F	Tape & Reel
52.3K OHM	1/16W	1%	±100 ppm	9C06031A5232F	Tape & Reel
53.6K OHM	1/16W	1%	±100 ppm	9C06031A5362F	Tape & Reel
54.9K OHM	1/16W	1%	±100 ppm	9C06031A5492F	Tape & Reel
56K OHM	1/16W	1%	±100 ppm	9C06031A5602F	Tape & Reel
56.2K OHM	1/16W	1%	±100 ppm	9C06031A5622F	Tape & Reel
57.6K OHM	1/16W	1%	±100 ppm	9C06031A5762F	Tape & Reel
59K OHM	1/16W	1%	±100 ppm	9C06031A5902F	Tape & Reel
60.4K OHM	1/16W	1%	±100 ppm	9C06031A6042F	Tape & Reel
61.9K OHM	1/16W	1%	±100 ppm	9C06031A6192F	Tape & Reel
62K OHM	1/16W	1%	±100 ppm	9C06031A6202F	Tape & Reel
63.4K OHM	1/16W	1%	±100 ppm	9C06031A6342F	Tape & Reel
66.5K OHM	1/16W	1%	±100 ppm	9C06031A6652F	Tape & Reel
68K OHM	1/16W	1%	±100 ppm	9C06031A6802F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
68.1K OHM	1/16W	1%	±100 ppm	9C06031A6812F	Tape & Reel
69.8K OHM	1/16W	1%	±100 ppm	9C06031A6982F	Tape & Reel
71.5K OHM	1/16W	1%	±100 ppm	9C06031A7152F	Tape & Reel
73.2K OHM	1/16W	1%	±100 ppm	9C06031A7322F	Tape & Reel
75K OHM	1/16W	1%	±100 ppm	9C06031A7502F	Tape & Reel
76.8K OHM	1/16W	1%	±100 ppm	9C06031A7682F	Tape & Reel
78.7K OHM	1/16W	1%	±100 ppm	9C06031A7872F	Tape & Reel
80.6K OHM	1/16W	1%	±100 ppm	9C06031A8062F	Tape & Reel
82K OHM	1/16W	1%	±100 ppm	9C06031A8202F	Tape & Reel
82.5K OHM	1/16W	1%	±100 ppm	9C06031A8252F	Tape & Reel
84.5K OHM	1/16W	1%	±100 ppm	9C06031A8452F	Tape & Reel
86.6K OHM	1/16W	1%	±100 ppm	9C06031A8662F	Tape & Reel
88.7K OHM	1/16W	1%	±100 ppm	9C06031A8872F	Tape & Reel
90.9K OHM	1/16W	1%	±100 ppm	9C06031A9092F	Tape & Reel
91K OHM	1/16W	1%	±100 ppm	9C06031A9102F	Tape & Reel
93.1K OHM	1/16W	1%	±100 ppm	9C06031A9312F	Tape & Reel
95.3K OHM	1/16W	1%	±100 ppm	9C06031A9532F	Tape & Reel
97.6K OHM	1/16W	1%	±100 ppm	9C06031A9762F	Tape & Reel
100K OHM	1/16W	1%	±100 ppm	9C06031A1003F	Tape & Reel
102K OHM	1/16W	1%	±100 ppm	9C06031A1023F	Tape & Reel
105K OHM	1/16W	1%	±100 ppm	9C06031A1053F	Tape & Reel
107K OHM	1/16W	1%	±100 ppm	9C06031A1073F	Tape & Reel
110K OHM	1/16W	1%	±100 ppm	9C06031A1103F	Tape & Reel
113K OHM	1/16W	1%	±100 ppm	9C06031A1133F	Tape & Reel
115K OHM	1/16W	1%	±100 ppm	9C06031A1153F	Tape & Reel
118K OHM	1/16W	1%	±100 ppm	9C06031A1183F	Tape & Reel
120K OHM	1/16W	1%	±100 ppm	9C06031A1203F	Tape & Reel
121K OHM	1/16W	1%	±100 ppm	9C06031A1213F	Tape & Reel
124K OHM	1/16W	1%	±100 ppm	9C06031A1243F	Tape & Reel
127K OHM	1/16W	1%	±100 ppm	9C06031A1273F	Tape & Reel
130K OHM	1/16W	1%	±100 ppm	9C06031A1303F	Tape & Reel
133K OHM	1/16W	1%	±100 ppm	9C06031A1333F	Tape & Reel
137K OHM	1/16W	1%	±100 ppm	9C06031A1373F	Tape & Reel
140K OHM	1/16W	1%	±100 ppm	9C06031A1403F	Tape & Reel
143K OHM	1/16W	1%	±100 ppm	9C06031A1433F	Tape & Reel
147K OHM	1/16W	1%	±100 ppm	9C06031A1473F	Tape & Reel
150K OHM	1/16W	1%	±100 ppm	9C06031A1503F	Tape & Reel
154K OHM	1/16W	1%	±100 ppm	9C06031A1543F	Tape & Reel
158K OHM	1/16W	1%	±100 ppm	9C06031A1583F	Tape & Reel
160K OHM	1/16W	1%	±100 ppm	9C06031A1603F	Tape & Reel
162K OHM	1/16W	1%	±100 ppm	9C06031A1623F	Tape & Reel
165K OHM	1/16W	1%	±100 ppm	9C06031A1653F	Tape & Reel
169K OHM	1/16W	1%	±100 ppm	9C06031A1693F	Tape & Reel
174K OHM	1/16W	1%	±100 ppm	9C06031A1743F	Tape & Reel
178K OHM	1/16W	1%	±100 ppm	9C06031A1783F	Tape & Reel
180K OHM	1/16W	1%	±100 ppm	9C06031A1803F	Tape & Reel
182K OHM	1/16W	1%	±100 ppm	9C06031A1823F	Tape & Reel
187K OHM	1/16W	1%	±100 ppm	9C06031A1873F	Tape & Reel
191K OHM	1/16W	1%	±100 ppm	9C06031A1913F	Tape & Reel
196K OHM	1/16W	1%	±100 ppm	9C06031A1963F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F ... Size 0603

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
200K OHM	1/16W	1%	±100 ppm	9C06031A2003F	Tape & Reel
205K OHM	1/16W	1%	±100 ppm	9C06031A2053F	Tape & Reel
210K OHM	1/16W	1%	±100 ppm	9C06031A2103F	Tape & Reel
215K OHM	1/16W	1%	±100 ppm	9C06031A2153F	Tape & Reel
220K OHM	1/16W	1%	±100 ppm	9C06031A2203F	Tape & Reel
221K OHM	1/16W	1%	±100 ppm	9C06031A2213F	Tape & Reel
226K OHM	1/16W	1%	±100 ppm	9C06031A2263F	Tape & Reel
232K OHM	1/16W	1%	±100 ppm	9C06031A2323F	Tape & Reel
237K OHM	1/16W	1%	±100 ppm	9C06031A2373F	Tape & Reel
240K OHM	1/16W	1%	±100 ppm	9C06031A2403F	Tape & Reel
243K OHM	1/16W	1%	±100 ppm	9C06031A2433F	Tape & Reel
249K OHM	1/16W	1%	±100 ppm	9C06031A2493F	Tape & Reel
255K OHM	1/16W	1%	±100 ppm	9C06031A2553F	Tape & Reel
261K OHM	1/16W	1%	±100 ppm	9C06031A2613F	Tape & Reel
267K OHM	1/16W	1%	±100 ppm	9C06031A2673F	Tape & Reel
270K OHM	1/16W	1%	±100 ppm	9C06031A2703F	Tape & Reel
274K OHM	1/16W	1%	±100 ppm	9C06031A2743F	Tape & Reel
280K OHM	1/16W	1%	±100 ppm	9C06031A2803F	Tape & Reel
287K OHM	1/16W	1%	±100 ppm	9C06031A2873F	Tape & Reel
294K OHM	1/16W	1%	±100 ppm	9C06031A2943F	Tape & Reel
300K OHM	1/16W	1%	±100 ppm	9C06031A3003F	Tape & Reel
301K OHM	1/16W	1%	±100 ppm	9C06031A3013F	Tape & Reel
309K OHM	1/16W	1%	±100 ppm	9C06031A3093F	Tape & Reel
316K OHM	1/16W	1%	±100 ppm	9C06031A3163F	Tape & Reel
324K OHM	1/16W	1%	±100 ppm	9C06031A3243F	Tape & Reel
330K OHM	1/16W	1%	±100 ppm	9C06031A3303F	Tape & Reel
332K OHM	1/16W	1%	±100 ppm	9C06031A3323F	Tape & Reel
340K OHM	1/16W	1%	±100 ppm	9C06031A3403F	Tape & Reel
348K OHM	1/16W	1%	±100 ppm	9C06031A3483F	Tape & Reel
357K OHM	1/16W	1%	±100 ppm	9C06031A3573F	Tape & Reel
360K OHM	1/16W	1%	±100 ppm	9C06031A3603F	Tape & Reel
365K OHM	1/16W	1%	±100 ppm	9C06031A3653F	Tape & Reel
374K OHM	1/16W	1%	±100 ppm	9C06031A3743F	Tape & Reel
383K OHM	1/16W	1%	±100 ppm	9C06031A3833F	Tape & Reel
390K OHM	1/16W	1%	±100 ppm	9C06031A3903F	Tape & Reel
392K OHM	1/16W	1%	±100 ppm	9C06031A3923F	Tape & Reel
402K OHM	1/16W	1%	±100 ppm	9C06031A4023F	Tape & Reel
412K OHM	1/16W	1%	±100 ppm	9C06031A4123F	Tape & Reel
422K OHM	1/16W	1%	±100 ppm	9C06031A4223F	Tape & Reel
430K OHM	1/16W	1%	±100 ppm	9C06031A4303F	Tape & Reel
432K OHM	1/16W	1%	±100 ppm	9C06031A4323F	Tape & Reel
442K OHM	1/16W	1%	±100 ppm	9C06031A4423F	Tape & Reel
453K OHM	1/16W	1%	±100 ppm	9C06031A4533F	Tape & Reel
464K OHM	1/16W	1%	±100 ppm	9C06031A4643F	Tape & Reel
470K OHM	1/16W	1%	±100 ppm	9C06031A4703F	Tape & Reel
475K OHM	1/16W	1%	±100 ppm	9C06031A4753F	Tape & Reel
487K OHM	1/16W	1%	±100 ppm	9C06031A4873F	Tape & Reel
499K OHM	1/16W	1%	±100 ppm	9C06031A4993F	Tape & Reel
510K OHM	1/16W	1%	±100 ppm	9C06031A5103F	Tape & Reel
511K OHM	1/16W	1%	±100 ppm	9C06031A5113F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
523K OHM	1/16W	1%	±100 ppm	9C06031A5233F	Tape & Reel
536K OHM	1/16W	1%	±100 ppm	9C06031A5363F	Tape & Reel
549K OHM	1/16W	1%	±100 ppm	9C06031A5493F	Tape & Reel
560K OHM	1/16W	1%	±100 ppm	9C06031A5603F	Tape & Reel
562K OHM	1/16W	1%	±100 ppm	9C06031A5623F	Tape & Reel
576K OHM	1/16W	1%	±100 ppm	9C06031A5763F	Tape & Reel
590K OHM	1/16W	1%	±100 ppm	9C06031A5903F	Tape & Reel
604K OHM	1/16W	1%	±100 ppm	9C06031A6043F	Tape & Reel
619K OHM	1/16W	1%	±100 ppm	9C06031A6193F	Tape & Reel
620K OHM	1/16W	1%	±100 ppm	9C06031A6203F	Tape & Reel
634K OHM	1/16W	1%	±100 ppm	9C06031A6343F	Tape & Reel
649K OHM	1/16W	1%	±100 ppm	9C06031A6493F	Tape & Reel
665K OHM	1/16W	1%	±100 ppm	9C06031A6653F	Tape & Reel
680K OHM	1/16W	1%	±100 ppm	9C06031A6803F	Tape & Reel
681K OHM	1/16W	1%	±100 ppm	9C06031A6813F	Tape & Reel
698K OHM	1/16W	1%	±100 ppm	9C06031A6983F	Tape & Reel
715K OHM	1/16W	1%	±100 ppm	9C06031A7153F	Tape & Reel
732K OHM	1/16W	1%	±100 ppm	9C06031A7323F	Tape & Reel
750K OHM	1/16W	1%	±100 ppm	9C06031A7503F	Tape & Reel
768K OHM	1/16W	1%	±100 ppm	9C06031A7683F	Tape & Reel
787K OHM	1/16W	1%	±100 ppm	9C06031A7873F	Tape & Reel
806K OHM	1/16W	1%	±100 ppm	9C06031A8063F	Tape & Reel
820K OHM	1/16W	1%	±100 ppm	9C06031A8203F	Tape & Reel
825K OHM	1/16W	1%	±100 ppm	9C06031A8253F	Tape & Reel
845K OHM	1/16W	1%	±100 ppm	9C06031A8453F	Tape & Reel
866K OHM	1/16W	1%	±100 ppm	9C06031A8663F	Tape & Reel
887K OHM	1/16W	1%	±100 ppm	9C06031A8873F	Tape & Reel
909K OHM	1/16W	1%	±100 ppm	9C06031A9093F	Tape & Reel
910K OHM	1/16W	1%	±100 ppm	9C06031A9103F	Tape & Reel
931K OHM	1/16W	1%	±100 ppm	9C06031A9313F	Tape & Reel
953K OHM	1/16W	1%	±100 ppm	9C06031A9533F	Tape & Reel
976K OHM	1/16W	1%	±100 ppm	9C06031A9763F	Tape & Reel
1M OHM	1/16W	1%	±100 ppm	9C06031A1004F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.00 OHM	1/10W	1%	±250 ppm	9C08052A1R00F	Tape & Reel
1.02 OHM	1/10W	1%	±250 ppm	9C08052A1R02F	Tape & Reel
1.05 OHM	1/10W	1%	±250 ppm	9C08052A1R05F	Tape & Reel
1.07 OHM	1/10W	1%	±250 ppm	9C08052A1R07F	Tape & Reel
1.10 OHM	1/10W	1%	±250 ppm	9C08052A1R10F	Tape & Reel
1.13 OHM	1/10W	1%	±250 ppm	9C08052A1R13F	Tape & Reel
1.15 OHM	1/10W	1%	±250 ppm	9C08052A1R15F	Tape & Reel
1.18 OHM	1/10W	1%	±250 ppm	9C08052A1R18F	Tape & Reel
1.20 OHM	1/10W	1%	±250 ppm	9C08052A1R20F	Tape & Reel
1.21 OHM	1/10W	1%	±250 ppm	9C08052A1R21F	Tape & Reel
1.24 OHM	1/10W	1%	±250 ppm	9C08052A1R24F	Tape & Reel
1.27 OHM	1/10W	1%	±250 ppm	9C08052A1R27F	Tape & Reel
1.30 OHM	1/10W	1%	±250 ppm	9C08052A1R30F	Tape & Reel
1.33 OHM	1/10W	1%	±250 ppm	9C08052A1R33F	Tape & Reel
1.37 OHM	1/10W	1%	±250 ppm	9C08052A1R37F	Tape & Reel
1.40 OHM	1/10W	1%	±250 ppm	9C08052A1R40F	Tape & Reel
1.43 OHM	1/10W	1%	±250 ppm	9C08052A1R43F	Tape & Reel
1.47 OHM	1/10W	1%	±250 ppm	9C08052A1R47F	Tape & Reel
1.50 OHM	1/10W	1%	±250 ppm	9C08052A1R50F	Tape & Reel
1.54 OHM	1/10W	1%	±250 ppm	9C08052A1R54F	Tape & Reel
1.58 OHM	1/10W	1%	±250 ppm	9C08052A1R58F	Tape & Reel
1.60 OHM	1/10W	1%	±250 ppm	9C08052A1R60F	Tape & Reel
1.62 OHM	1/10W	1%	±250 ppm	9C08052A1R62F	Tape & Reel
1.65 OHM	1/10W	1%	±250 ppm	9C08052A1R65F	Tape & Reel
1.69 OHM	1/10W	1%	±250 ppm	9C08052A1R69F	Tape & Reel
1.74 OHM	1/10W	1%	±250 ppm	9C08052A1R74F	Tape & Reel
1.78 OHM	1/10W	1%	±250 ppm	9C08052A1R78F	Tape & Reel
1.80 OHM	1/10W	1%	±250 ppm	9C08052A1R80F	Tape & Reel
1.82 OHM	1/10W	1%	±250 ppm	9C08052A1R82F	Tape & Reel
1.87 OHM	1/10W	1%	±250 ppm	9C08052A1R87F	Tape & Reel
1.91 OHM	1/10W	1%	±250 ppm	9C08052A1R91F	Tape & Reel
1.96 OHM	1/10W	1%	±250 ppm	9C08052A1R96F	Tape & Reel
2.0 OHM	1/10W	1%	±250 ppm	9C08052A2R00F	Tape & Reel
2.05 OHM	1/10W	1%	±250 ppm	9C08052A2R05F	Tape & Reel
2.10 OHM	1/10W	1%	±250 ppm	9C08052A2R10F	Tape & Reel
2.15 OHM	1/10W	1%	±250 ppm	9C08052A2R15F	Tape & Reel
2.20 OHM	1/10W	1%	±250 ppm	9C08052A2R20F	Tape & Reel
2.21 OHM	1/10W	1%	±250 ppm	9C08052A2R21F	Tape & Reel
2.26 OHM	1/10W	1%	±250 ppm	9C08052A2R26F	Tape & Reel
2.32 OHM	1/10W	1%	±250 ppm	9C08052A2R32F	Tape & Reel
2.37 OHM	1/10W	1%	±250 ppm	9C08052A2R37F	Tape & Reel
2.40 OHM	1/10W	1%	±250 ppm	9C08052A2R40F	Tape & Reel
2.43 OHM	1/10W	1%	±250 ppm	9C08052A2R43F	Tape & Reel
2.49 OHM	1/10W	1%	±250 ppm	9C08052A2R49F	Tape & Reel
2.55 OHM	1/10W	1%	±250 ppm	9C08052A2R55F	Tape & Reel
2.61 OHM	1/10W	1%	±250 ppm	9C08052A2R61F	Tape & Reel
2.67 OHM	1/10W	1%	±250 ppm	9C08052A2R67F	Tape & Reel
2.70 OHM	1/10W	1%	±250 ppm	9C08052A2R70F	Tape & Reel
2.74 OHM	1/10W	1%	±250 ppm	9C08052A2R74F	Tape & Reel
2.80 OHM	1/10W	1%	±250 ppm	9C08052A2R80F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
2.87 OHM	1/10W	1%	±250 ppm	9C08052A2R87F	Tape & Reel
2.94 OHM	1/10W	1%	±250 ppm	9C08052A2R94F	Tape & Reel
3.00 OHM	1/10W	1%	±250 ppm	9C08052A3R00F	Tape & Reel
3.01 OHM	1/10W	1%	±250 ppm	9C08052A3R01F	Tape & Reel
3.09 OHM	1/10W	1%	±250 ppm	9C08052A3R09F	Tape & Reel
3.16 OHM	1/10W	1%	±250 ppm	9C08052A3R16F	Tape & Reel
3.24 OHM	1/10W	1%	±250 ppm	9C08052A3R24F	Tape & Reel
3.3 OHM	1/10W	1%	±250 ppm	9C08052A3R30F	Tape & Reel
3.32 OHM	1/10W	1%	±250 ppm	9C08052A3R32F	Tape & Reel
3.4 OHM	1/10W	1%	±250 ppm	9C08052A3R40F	Tape & Reel
3.48 OHM	1/10W	1%	±250 ppm	9C08052A3R48F	Tape & Reel
3.57 OHM	1/10W	1%	±250 ppm	9C08052A3R57F	Tape & Reel
3.6 OHM	1/10W	1%	±250 ppm	9C08052A3R60F	Tape & Reel
3.65 OHM	1/10W	1%	±250 ppm	9C08052A3R65F	Tape & Reel
3.74 OHM	1/10W	1%	±250 ppm	9C08052A3R74F	Tape & Reel
3.83 OHM	1/10W	1%	±250 ppm	9C08052A3R83F	Tape & Reel
3.9 OHM	1/10W	1%	±250 ppm	9C08052A3R90F	Tape & Reel
3.92 OHM	1/10W	1%	±250 ppm	9C08052A3R92F	Tape & Reel
4.02 OHM	1/10W	1%	±250 ppm	9C08052A4R02F	Tape & Reel
4.12 OHM	1/10W	1%	±250 ppm	9C08052A4R12F	Tape & Reel
4.22 OHM	1/10W	1%	±250 ppm	9C08052A4R22F	Tape & Reel
4.3 OHM	1/10W	1%	±250 ppm	9C08052A4R30F	Tape & Reel
4.32 OHM	1/10W	1%	±250 ppm	9C08052A4R32F	Tape & Reel
4.42 OHM	1/10W	1%	±250 ppm	9C08052A4R42F	Tape & Reel
4.53 OHM	1/10W	1%	±250 ppm	9C08052A4R53F	Tape & Reel
4.64 OHM	1/10W	1%	±250 ppm	9C08052A4R64F	Tape & Reel
4.7 OHM	1/10W	1%	±250 ppm	9C08052A4R70F	Tape & Reel
4.75 OHM	1/10W	1%	±250 ppm	9C08052A4R75F	Tape & Reel
4.87 OHM	1/10W	1%	±250 ppm	9C08052A4R87F	Tape & Reel
4.99 OHM	1/10W	1%	±250 ppm	9C08052A4R99F	Tape & Reel
5.1 OHM	1/10W	1%	±200 ppm	9C08052A5R10F	Tape & Reel
5.11 OHM	1/10W	1%	±200 ppm	9C08052A5R11F	Tape & Reel
5.23 OHM	1/10W	1%	±200 ppm	9C08052A5R23F	Tape & Reel
5.36 OHM	1/10W	1%	±200 ppm	9C08052A5R36F	Tape & Reel
5.49 OHM	1/10W	1%	±200 ppm	9C08052A5R49F	Tape & Reel
5.6 OHM	1/10W	1%	±200 ppm	9C08052A5R60F	Tape & Reel
5.62 OHM	1/10W	1%	±200 ppm	9C08052A5R62F	Tape & Reel
5.76 OHM	1/10W	1%	±200 ppm	9C08052A5R76F	Tape & Reel
5.9 OHM	1/10W	1%	±200 ppm	9C08052A5R90F	Tape & Reel
6.04 OHM	1/10W	1%	±200 ppm	9C08052A6R04F	Tape & Reel
6.19 OHM	1/10W	1%	±200 ppm	9C08052A6R19F	Tape & Reel
6.2 OHM	1/10W	1%	±200 ppm	9C08052A6R20F	Tape & Reel
6.34 OHM	1/10W	1%	±200 ppm	9C08052A6R34F	Tape & Reel
6.49 OHM	1/10W	1%	±200 ppm	9C08052A6R49F	Tape & Reel
6.65 OHM	1/10W	1%	±200 ppm	9C08052A6R65F	Tape & Reel
6.8 OHM	1/10W	1%	±200 ppm	9C08052A6R80F	Tape & Reel
6.81 OHM	1/10W	1%	±200 ppm	9C08052A6R81F	Tape & Reel
6.98 OHM	1/10W	1%	±200 ppm	9C08052A6R98F	Tape & Reel
7.15 OHM	1/10W	1%	±200 ppm	9C08052A7R15F	Tape & Reel
7.32 OHM	1/10W	1%	±200 ppm	9C08052A7R32F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
7.5 OHM	1/10W	1%	±200 ppm	9C08052A7R50F	Tape & Reel
7.68 OHM	1/10W	1%	±200 ppm	9C08052A7R68F	Tape & Reel
7.87 OHM	1/10W	1%	±200 ppm	9C08052A7R87F	Tape & Reel
8.06 OHM	1/10W	1%	±200 ppm	9C08052A8R06F	Tape & Reel
8.2 OHM	1/10W	1%	±200 ppm	9C08052A8R20F	Tape & Reel
8.25 OHM	1/10W	1%	±200 ppm	9C08052A8R25F	Tape & Reel
8.45 OHM	1/10W	1%	±200 ppm	9C08052A8R45F	Tape & Reel
8.66 OHM	1/10W	1%	±200 ppm	9C08052A8R66F	Tape & Reel
8.87 OHM	1/10W	1%	±200 ppm	9C08052A8R87F	Tape & Reel
9.09 OHM	1/10W	1%	±200 ppm	9C08052A9R09F	Tape & Reel
9.1 OHM	1/10W	1%	±200 ppm	9C08052A9R10F	Tape & Reel
9.31 OHM	1/10W	1%	±200 ppm	9C08052A9R31F	Tape & Reel
9.53 OHM	1/10W	1%	±200 ppm	9C08052A9R53F	Tape & Reel
9.76 OHM	1/10W	1%	±200 ppm	9C08052A9R76F	Tape & Reel
10.0 OHM	1/10W	1%	±200 ppm	9C08052A10R0F	Tape & Reel
10.2 OHM	1/10W	1%	±200 ppm	9C08052A10R2F	Tape & Reel
10.5 OHM	1/10W	1%	±200 ppm	9C08052A10R5F	Tape & Reel
10.7 OHM	1/10W	1%	±200 ppm	9C08052A10R7F	Tape & Reel
11.0 OHM	1/10W	1%	±200 ppm	9C08052A11R0F	Tape & Reel
11.3 OHM	1/10W	1%	±200 ppm	9C08052A11R3F	Tape & Reel
11.5 OHM	1/10W	1%	±200 ppm	9C08052A11R5F	Tape & Reel
11.8 OHM	1/10W	1%	±200 ppm	9C08052A11R8F	Tape & Reel
12.0 OHM	1/10W	1%	±200 ppm	9C08052A12R0F	Tape & Reel
12.1 OHM	1/10W	1%	±200 ppm	9C08052A12R1F	Tape & Reel
12.4 OHM	1/10W	1%	±200 ppm	9C08052A12R4F	Tape & Reel
12.7 OHM	1/10W	1%	±200 ppm	9C08052A12R7F	Tape & Reel
13.0 OHM	1/10W	1%	±200 ppm	9C08052A13R0F	Tape & Reel
13.3 OHM	1/10W	1%	±200 ppm	9C08052A13R3F	Tape & Reel
13.7 OHM	1/10W	1%	±200 ppm	9C08052A13R7F	Tape & Reel
14.0 OHM	1/10W	1%	±200 ppm	9C08052A14R0F	Tape & Reel
14.3 OHM	1/10W	1%	±200 ppm	9C08052A14R3F	Tape & Reel
14.7 OHM	1/10W	1%	±200 ppm	9C08052A14R7F	Tape & Reel
15.0 OHM	1/10W	1%	±200 ppm	9C08052A15R0F	Tape & Reel
15.4 OHM	1/10W	1%	±200 ppm	9C08052A15R4F	Tape & Reel
15.8 OHM	1/10W	1%	±200 ppm	9C08052A15R8F	Tape & Reel
16.0 OHM	1/10W	1%	±200 ppm	9C08052A16R0F	Tape & Reel
16.2 OHM	1/10W	1%	±200 ppm	9C08052A16R2F	Tape & Reel
16.5 OHM	1/10W	1%	±200 ppm	9C08052A16R5F	Tape & Reel
16.9 OHM	1/10W	1%	±200 ppm	9C08052A16R9F	Tape & Reel
17.4 OHM	1/10W	1%	±200 ppm	9C08052A17R4F	Tape & Reel
17.8 OHM	1/10W	1%	±200 ppm	9C08052A17R8F	Tape & Reel
18.0 OHM	1/10W	1%	±200 ppm	9C08052A18R0F	Tape & Reel
18.2 OHM	1/10W	1%	±200 ppm	9C08052A18R2F	Tape & Reel
18.7 OHM	1/10W	1%	±200 ppm	9C08052A18R7F	Tape & Reel
19.1 OHM	1/10W	1%	±200 ppm	9C08052A19R1F	Tape & Reel
19.6 OHM	1/10W	1%	±200 ppm	9C08052A19R6F	Tape & Reel
20.0 OHM	1/10W	1%	±200 ppm	9C08052A20R0F	Tape & Reel
20.5 OHM	1/10W	1%	±200 ppm	9C08052A20R5F	Tape & Reel
21.0 OHM	1/10W	1%	±200 ppm	9C08052A21R0F	Tape & Reel
22.0 OHM	1/10W	1%	±200 ppm	9C08052A22R0F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
22.1 OHM	1/10W	1%	±200 ppm	9C08052A22R1F	Tape & Reel
22.6 OHM	1/10W	1%	±200 ppm	9C08052A22R6F	Tape & Reel
23.2 OHM	1/10W	1%	±200 ppm	9C08052A23R2F	Tape & Reel
23.7 OHM	1/10W	1%	±200 ppm	9C08052A23R7F	Tape & Reel
24.0 OHM	1/10W	1%	±200 ppm	9C08052A24R0F	Tape & Reel
24.3 OHM	1/10W	1%	±200 ppm	9C08052A24R3F	Tape & Reel
24.9 OHM	1/10W	1%	±200 ppm	9C08052A24R9F	Tape & Reel
25.5 OHM	1/10W	1%	±200 ppm	9C08052A25R5F	Tape & Reel
26.1 OHM	1/10W	1%	±200 ppm	9C08052A26R1F	Tape & Reel
26.7 OHM	1/10W	1%	±200 ppm	9C08052A26R7F	Tape & Reel
27.0 OHM	1/10W	1%	±200 ppm	9C08052A27R0F	Tape & Reel
27.4 OHM	1/10W	1%	±200 ppm	9C08052A27R4F	Tape & Reel
28.0 OHM	1/10W	1%	±200 ppm	9C08052A28R0F	Tape & Reel
28.7 OHM	1/10W	1%	±200 ppm	9C08052A28R7F	Tape & Reel
29.4 OHM	1/10W	1%	±200 ppm	9C08052A29R4F	Tape & Reel
30.0 OHM	1/10W	1%	±200 ppm	9C08052A30R0F	Tape & Reel
30.1 OHM	1/10W	1%	±200 ppm	9C08052A30R1F	Tape & Reel
30.9 OHM	1/10W	1%	±200 ppm	9C08052A30R9F	Tape & Reel
31.6 OHM	1/10W	1%	±200 ppm	9C08052A31R6F	Tape & Reel
32.4 OHM	1/10W	1%	±200 ppm	9C08052A32R4F	Tape & Reel
33.0 OHM	1/10W	1%	±200 ppm	9C08052A33R0F	Tape & Reel
33.2 OHM	1/10W	1%	±200 ppm	9C08052A33R2F	Tape & Reel
34.0 OHM	1/10W	1%	±200 ppm	9C08052A34R0F	Tape & Reel
34.8 OHM	1/10W	1%	±200 ppm	9C08052A34R8F	Tape & Reel
35.7 OHM	1/10W	1%	±200 ppm	9C08052A35R7F	Tape & Reel
36.0 OHM	1/10W	1%	±200 ppm	9C08052A36R0F	Tape & Reel
36.5 OHM	1/10W	1%	±200 ppm	9C08052A36R5F	Tape & Reel
37.4 OHM	1/10W	1%	±200 ppm	9C08052A37R4F	Tape & Reel
38.3 OHM	1/10W	1%	±200 ppm	9C08052A38R3F	Tape & Reel
39.0 OHM	1/10W	1%	±200 ppm	9C08052A39R0F	Tape & Reel
39.2 OHM	1/10W	1%	±200 ppm	9C08052A39R2F	Tape & Reel
40.2 OHM	1/10W	1%	±200 ppm	9C08052A40R2F	Tape & Reel
41.2 OHM	1/10W	1%	±200 ppm	9C08052A41R2F	Tape & Reel
42.2 OHM	1/10W	1%	±200 ppm	9C08052A42R2F	Tape & Reel
43.0 OHM	1/10W	1%	±200 ppm	9C08052A43R0F	Tape & Reel
43.2 OHM	1/10W	1%	±200 ppm	9C08052A43R2F	Tape & Reel
44.2 OHM	1/10W	1%	±200 ppm	9C08052A44R2F	Tape & Reel
45.3 OHM	1/10W	1%	±200 ppm	9C08052A45R3F	Tape & Reel
46.4 OHM	1/10W	1%	±200 ppm	9C08052A46R4F	Tape & Reel
47.0 OHM	1/10W	1%	±200 ppm	9C08052A47R0F	Tape & Reel
47.5 OHM	1/10W	1%	±200 ppm	9C08052A47R5F	Tape & Reel
48.7 OHM	1/10W	1%	±200 ppm	9C08052A48R7F	Tape & Reel
49.9 OHM	1/10W	1%	±200 ppm	9C08052A49R9F	Tape & Reel
51.0 OHM	1/10W	1%	±200 ppm	9C08052A51R0F	Tape & Reel
51.1 OHM	1/10W	1%	±200 ppm	9C08052A51R1F	Tape & Reel
52.3 OHM	1/10W	1%	±200 ppm	9C08052A52R3F	Tape & Reel
53.6 OHM	1/10W	1%	±200 ppm	9C08052A53R6F	Tape & Reel
54.9 OHM	1/10W	1%	±200 ppm	9C08052A54R9F	Tape & Reel
56.0 OHM	1/10W	1%	±200 ppm	9C08052A56R0F	Tape & Reel
56.2 OHM	1/10W	1%	±200 ppm	9C08052A56R2F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
57.6 OHM	1/10W	1%	±200 ppm	9C08052A57R6F	Tape & Reel
59.0 OHM	1/10W	1%	±200 ppm	9C08052A59R0F	Tape & Reel
60.4 OHM	1/10W	1%	±200 ppm	9C08052A60R4F	Tape & Reel
61.9 OHM	1/10W	1%	±200 ppm	9C08052A61R9F	Tape & Reel
62.0 OHM	1/10W	1%	±200 ppm	9C08052A62R0F	Tape & Reel
63.4 OHM	1/10W	1%	±200 ppm	9C08052A63R4F	Tape & Reel
64.9 OHM	1/10W	1%	±200 ppm	9C08052A64R9F	Tape & Reel
66.5 OHM	1/10W	1%	±200 ppm	9C08052A66R5F	Tape & Reel
68.0 OHM	1/10W	1%	±200 ppm	9C08052A68R0F	Tape & Reel
68.1 OHM	1/10W	1%	±200 ppm	9C08052A68R1F	Tape & Reel
69.8 OHM	1/10W	1%	±200 ppm	9C08052A69R8F	Tape & Reel
71.5 OHM	1/10W	1%	±200 ppm	9C08052A71R5F	Tape & Reel
73.2 OHM	1/10W	1%	±200 ppm	9C08052A73R2F	Tape & Reel
75.0 OHM	1/10W	1%	±200 ppm	9C08052A75R0F	Tape & Reel
76.8 OHM	1/10W	1%	±200 ppm	9C08052A76R8F	Tape & Reel
78.7 OHM	1/10W	1%	±200 ppm	9C08052A78R7F	Tape & Reel
80.6 OHM	1/10W	1%	±200 ppm	9C08052A80R6F	Tape & Reel
82.0 OHM	1/10W	1%	±200 ppm	9C08052A82R0F	Tape & Reel
82.5 OHM	1/10W	1%	±200 ppm	9C08052A82R5F	Tape & Reel
84.5 OHM	1/10W	1%	±200 ppm	9C08052A84R5F	Tape & Reel
86.6 OHM	1/10W	1%	±200 ppm	9C08052A86R6F	Tape & Reel
88.7 OHM	1/10W	1%	±200 ppm	9C08052A88R7F	Tape & Reel
90.9 OHM	1/10W	1%	±200 ppm	9C08052A90R9F	Tape & Reel
91.0 OHM	1/10W	1%	±200 ppm	9C08052A91R0F	Tape & Reel
93.1 OHM	1/10W	1%	±200 ppm	9C08052A93R1F	Tape & Reel
95.3 OHM	1/10W	1%	±200 ppm	9C08052A95R3F	Tape & Reel
97.6 OHM	1/10W	1%	±200 ppm	9C08052A97R6F	Tape & Reel
100 OHM	1/10W	1%	±100 ppm	9C08052A1000F	Tape & Reel
102 OHM	1/10W	1%	±100 ppm	9C08052A1020F	Tape & Reel
105 OHM	1/10W	1%	±100 ppm	9C08052A1050F	Tape & Reel
107 OHM	1/10W	1%	±100 ppm	9C08052A1070F	Tape & Reel
110 OHM	1/10W	1%	±100 ppm	9C08052A1100F	Tape & Reel
113 OHM	1/10W	1%	±100 ppm	9C08052A1130F	Tape & Reel
115 OHM	1/10W	1%	±100 ppm	9C08052A1150F	Tape & Reel
118 OHM	1/10W	1%	±100 ppm	9C08052A1180F	Tape & Reel
120 OHM	1/10W	1%	±100 ppm	9C08052A1200F	Tape & Reel
121 OHM	1/10W	1%	±100 ppm	9C08052A1210F	Tape & Reel
124 OHM	1/10W	1%	±100 ppm	9C08052A1240F	Tape & Reel
127 OHM	1/10W	1%	±100 ppm	9C08052A1270F	Tape & Reel
130 OHM	1/10W	1%	±100 ppm	9C08052A1300F	Tape & Reel
133 OHM	1/10W	1%	±100 ppm	9C08052A1330F	Tape & Reel
137 OHM	1/10W	1%	±100 ppm	9C08052A1370F	Tape & Reel
140 OHM	1/10W	1%	±100 ppm	9C08052A1400F	Tape & Reel
143 OHM	1/10W	1%	±100 ppm	9C08052A1430F	Tape & Reel
147 OHM	1/10W	1%	±100 ppm	9C08052A1470F	Tape & Reel
150 OHM	1/10W	1%	±100 ppm	9C08052A1500F	Tape & Reel
154 OHM	1/10W	1%	±100 ppm	9C08052A1540F	Tape & Reel
158 OHM	1/10W	1%	±100 ppm	9C08052A1580F	Tape & Reel
160 OHM	1/10W	1%	±100 ppm	9C08052A1600F	Tape & Reel
162 OHM	1/10W	1%	±100 ppm	9C08052A1620F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
165 OHM	1/10W	1%	±100 ppm	9C08052A1650F	Tape & Reel
169 OHM	1/10W	1%	±100 ppm	9C08052A1690F	Tape & Reel
174 OHM	1/10W	1%	±100 ppm	9C08052A1740F	Tape & Reel
178 OHM	1/10W	1%	±100 ppm	9C08052A1780F	Tape & Reel
180 OHM	1/10W	1%	±100 ppm	9C08052A1800F	Tape & Reel
182 OHM	1/10W	1%	±100 ppm	9C08052A1820F	Tape & Reel
187 OHM	1/10W	1%	±100 ppm	9C08052A1870F	Tape & Reel
191 OHM	1/10W	1%	±100 ppm	9C08052A1910F	Tape & Reel
196 OHM	1/10W	1%	±100 ppm	9C08052A1960F	Tape & Reel
200 OHM	1/10W	1%	±100 ppm	9C08052A2000F	Tape & Reel
205 OHM	1/10W	1%	±100 ppm	9C08052A2050F	Tape & Reel
210 OHM	1/10W	1%	±100 ppm	9C08052A2100F	Tape & Reel
215 OHM	1/10W	1%	±100 ppm	9C08052A2150F	Tape & Reel
220 OHM	1/10W	1%	±100 ppm	9C08052A2200F	Tape & Reel
221 OHM	1/10W	1%	±100 ppm	9C08052A2210F	Tape & Reel
226 OHM	1/10W	1%	±100 ppm	9C08052A2260F	Tape & Reel
232 OHM	1/10W	1%	±100 ppm	9C08052A2320F	Tape & Reel
237 OHM	1/10W	1%	±100 ppm	9C08052A2370F	Tape & Reel
240 OHM	1/10W	1%	±100 ppm	9C08052A2400F	Tape & Reel
243 OHM	1/10W	1%	±100 ppm	9C08052A2430F	Tape & Reel
249 OHM	1/10W	1%	±100 ppm	9C08052A2490F	Tape & Reel
255 OHM	1/10W	1%	±100 ppm	9C08052A2550F	Tape & Reel
261 OHM	1/10W	1%	±100 ppm	9C08052A2610F	Tape & Reel
267 OHM	1/10W	1%	±100 ppm	9C08052A2670F	Tape & Reel
270 OHM	1/10W	1%	±100 ppm	9C08052A2700F	Tape & Reel
274 OHM	1/10W	1%	±100 ppm	9C08052A2740F	Tape & Reel
280 OHM	1/10W	1%	±100 ppm	9C08052A2800F	Tape & Reel
287 OHM	1/10W	1%	±100 ppm	9C08052A2870F	Tape & Reel
294 OHM	1/10W	1%	±100 ppm	9C08052A2940F	Tape & Reel
300 OHM	1/10W	1%	±100 ppm	9C08052A3000F	Tape & Reel
301 OHM	1/10W	1%	±100 ppm	9C08052A3010F	Tape & Reel
309 OHM	1/10W	1%	±100 ppm	9C08052A3090F	Tape & Reel
316 OHM	1/10W	1%	±100 ppm	9C08052A3160F	Tape & Reel
324 OHM	1/10W	1%	±100 ppm	9C08052A3240F	Tape & Reel
330 OHM	1/10W	1%	±100 ppm	9C08052A3300F	Tape & Reel
332 OHM	1/10W	1%	±100 ppm	9C08052A3320F	Tape & Reel
340 OHM	1/10W	1%	±100 ppm	9C08052A3400F	Tape & Reel
348 OHM	1/10W	1%	±100 ppm	9C08052A3480F	Tape & Reel
357 OHM	1/10W	1%	±100 ppm	9C08052A3570F	Tape & Reel
360 OHM	1/10W	1%	±100 ppm	9C08052A3600F	Tape & Reel
365 OHM	1/10W	1%	±100 ppm	9C08052A3650F	Tape & Reel
374 OHM	1/10W	1%	±100 ppm	9C08052A3740F	Tape & Reel
382 OHM	1/10W	1%	±100 ppm	9C08052A3820F	Tape & Reel
383 OHM	1/10W	1%	±100 ppm	9C08052A3830F	Tape & Reel
390 OHM	1/10W	1%	±100 ppm	9C08052A3900F	Tape & Reel
402 OHM	1/10W	1%	±100 ppm	9C08052A4020F	Tape & Reel
412 OHM	1/10W	1%	±100 ppm	9C08052A4120F	Tape & Reel
422 OHM	1/10W	1%	±100 ppm	9C08052A4220F	Tape & Reel
430 OHM	1/10W	1%	±100 ppm	9C08052A4300F	Tape & Reel
432 OHM	1/10W	1%	±100 ppm	9C08052A4320F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F ... Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
442 OHM	1/10W	1%	±100 ppm	9C08052A4420F	Tape & Reel
453 OHM	1/10W	1%	±100 ppm	9C08052A4530F	Tape & Reel
464 OHM	1/10W	1%	±100 ppm	9C08052A4640F	Tape & Reel
470 OHM	1/10W	1%	±100 ppm	9C08052A4700F	Tape & Reel
475 OHM	1/10W	1%	±100 ppm	9C08052A4750F	Tape & Reel
487 OHM	1/10W	1%	±100 ppm	9C08052A4870F	Tape & Reel
499 OHM	1/10W	1%	±100 ppm	9C08052A4990F	Tape & Reel
510 OHM	1/10W	1%	±100 ppm	9C08052A5100F	Tape & Reel
511 OHM	1/10W	1%	±100 ppm	9C08052A5110F	Tape & Reel
523 OHM	1/10W	1%	±100 ppm	9C08052A5230F	Tape & Reel
536 OHM	1/10W	1%	±100 ppm	9C08052A5360F	Tape & Reel
549 OHM	1/10W	1%	±100 ppm	9C08052A5490F	Tape & Reel
560 OHM	1/10W	1%	±100 ppm	9C08052A5600F	Tape & Reel
562 OHM	1/10W	1%	±100 ppm	9C08052A5620F	Tape & Reel
576 OHM	1/10W	1%	±100 ppm	9C08052A5760F	Tape & Reel
590 OHM	1/10W	1%	±100 ppm	9C08052A5900F	Tape & Reel
604 OHM	1/10W	1%	±100 ppm	9C08052A6040F	Tape & Reel
619 OHM	1/10W	1%	±100 ppm	9C08052A6190F	Tape & Reel
620 OHM	1/10W	1%	±100 ppm	9C08052A6200F	Tape & Reel
634 OHM	1/10W	1%	±100 ppm	9C08052A6340F	Tape & Reel
649 OHM	1/10W	1%	±100 ppm	9C08052A6490F	Tape & Reel
665 OHM	1/10W	1%	±100 ppm	9C08052A6650F	Tape & Reel
680 OHM	1/10W	1%	±100 ppm	9C08052A6800F	Tape & Reel
681 OHM	1/10W	1%	±100 ppm	9C08052A6810F	Tape & Reel
698 OHM	1/10W	1%	±100 ppm	9C08052A6980F	Tape & Reel
715 OHM	1/10W	1%	±100 ppm	9C08052A7150F	Tape & Reel
732 OHM	1/10W	1%	±100 ppm	9C08052A7320F	Tape & Reel
750 OHM	1/10W	1%	±100 ppm	9C08052A7500F	Tape & Reel
768 OHM	1/10W	1%	±100 ppm	9C08052A7680F	Tape & Reel
787 OHM	1/10W	1%	±100 ppm	9C08052A7870F	Tape & Reel
806 OHM	1/10W	1%	±100 ppm	9C08052A8060F	Tape & Reel
820 OHM	1/10W	1%	±100 ppm	9C08052A8200F	Tape & Reel
825 OHM	1/10W	1%	±100 ppm	9C08052A8250F	Tape & Reel
845 OHM	1/10W	1%	±100 ppm	9C08052A8450F	Tape & Reel
866 OHM	1/10W	1%	±100 ppm	9C08052A8660F	Tape & Reel
887 OHM	1/10W	1%	±100 ppm	9C08052A8870F	Tape & Reel
909 OHM	1/10W	1%	±100 ppm	9C08052A9090F	Tape & Reel
910 OHM	1/10W	1%	±100 ppm	9C08052A9100F	Tape & Reel
931 OHM	1/10W	1%	±100 ppm	9C08052A9310F	Tape & Reel
953 OHM	1/10W	1%	±100 ppm	9C08052A9530F	Tape & Reel
976 OHM	1/10W	1%	±100 ppm	9C08052A9760F	Tape & Reel
1K OHM	1/10W	1%	±100 ppm	9C08052A1001F	Tape & Reel
1.02K OHM	1/10W	1%	±100 ppm	9C08052A1021F	Tape & Reel
1.05K OHM	1/10W	1%	±100 ppm	9C08052A1051F	Tape & Reel
1.07K OHM	1/10W	1%	±100 ppm	9C08052A1071F	Tape & Reel
1.10K OHM	1/10W	1%	±100 ppm	9C08052A1101F	Tape & Reel
1.13K OHM	1/10W	1%	±100 ppm	9C08052A1131F	Tape & Reel
1.15K OHM	1/10W	1%	±100 ppm	9C08052A1151F	Tape & Reel
1.18K OHM	1/10W	1%	±100 ppm	9C08052A1181F	Tape & Reel
1.20K OHM	1/10W	1%	±100 ppm	9C08052A1201F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.21K OHM	1/10W	1%	±100 ppm	9C08052A1211F	Tape & Reel
1.24K OHM	1/10W	1%	±100 ppm	9C08052A1241F	Tape & Reel
1.27K OHM	1/10W	1%	±100 ppm	9C08052A1271F	Tape & Reel
1.30K OHM	1/10W	1%	±100 ppm	9C08052A1301F	Tape & Reel
1.33K OHM	1/10W	1%	±100 ppm	9C08052A1331F	Tape & Reel
1.37K OHM	1/10W	1%	±100 ppm	9C08052A1371F	Tape & Reel
1.40K OHM	1/10W	1%	±100 ppm	9C08052A1401F	Tape & Reel
1.43K OHM	1/10W	1%	±100 ppm	9C08052A1431F	Tape & Reel
1.47K OHM	1/10W	1%	±100 ppm	9C08052A1471F	Tape & Reel
1.50K OHM	1/10W	1%	±100 ppm	9C08052A1501F	Tape & Reel
1.54K OHM	1/10W	1%	±100 ppm	9C08052A1541F	Tape & Reel
1.58K OHM	1/10W	1%	±100 ppm	9C08052A1581F	Tape & Reel
1.60K OHM	1/10W	1%	±100 ppm	9C08052A1601F	Tape & Reel
1.62K OHM	1/10W	1%	±100 ppm	9C08052A1621F	Tape & Reel
1.65K OHM	1/10W	1%	±100 ppm	9C08052A1651F	Tape & Reel
1.69K OHM	1/10W	1%	±100 ppm	9C08052A1691F	Tape & Reel
1.74K OHM	1/10W	1%	±100 ppm	9C08052A1741F	Tape & Reel
1.78K OHM	1/10W	1%	±100 ppm	9C08052A1781F	Tape & Reel
1.80K OHM	1/10W	1%	±100 ppm	9C08052A1801F	Tape & Reel
1.82K OHM	1/10W	1%	±100 ppm	9C08052A1821F	Tape & Reel
1.87K OHM	1/10W	1%	±100 ppm	9C08052A1871F	Tape & Reel
1.91K OHM	1/10W	1%	±100 ppm	9C08052A1911F	Tape & Reel
1.96K OHM	1/10W	1%	±100 ppm	9C08052A1961F	Tape & Reel
2.00K OHM	1/10W	1%	±100 ppm	9C08052A2001F	Tape & Reel
2.05K OHM	1/10W	1%	±100 ppm	9C08052A2051F	Tape & Reel
2.10K OHM	1/10W	1%	±100 ppm	9C08052A2101F	Tape & Reel
2.15K OHM	1/10W	1%	±100 ppm	9C08052A2151F	Tape & Reel
2.20K OHM	1/10W	1%	±100 ppm	9C08052A2201F	Tape & Reel
2.21K OHM	1/10W	1%	±100 ppm	9C08052A2211F	Tape & Reel
2.26K OHM	1/10W	1%	±100 ppm	9C08052A2261F	Tape & Reel
2.32K OHM	1/10W	1%	±100 ppm	9C08052A2321F	Tape & Reel
2.37K OHM	1/10W	1%	±100 ppm	9C08052A2371F	Tape & Reel
2.40K OHM	1/10W	1%	±100 ppm	9C08052A2401F	Tape & Reel
2.43K OHM	1/10W	1%	±100 ppm	9C08052A2431F	Tape & Reel
2.49K OHM	1/10W	1%	±100 ppm	9C08052A2491F	Tape & Reel
2.55K OHM	1/10W	1%	±100 ppm	9C08052A2551F	Tape & Reel
2.61K OHM	1/10W	1%	±100 ppm	9C08052A2611F	Tape & Reel
2.67K OHM	1/10W	1%	±100 ppm	9C08052A2671F	Tape & Reel
2.70K OHM	1/10W	1%	±100 ppm	9C08052A2701F	Tape & Reel
2.74K OHM	1/10W	1%	±100 ppm	9C08052A2741F	Tape & Reel
2.80K OHM	1/10W	1%	±100 ppm	9C08052A2801F	Tape & Reel
2.87K OHM	1/10W	1%	±100 ppm	9C08052A2871F	Tape & Reel
2.94K OHM	1/10W	1%	±100 ppm	9C08052A2941F	Tape & Reel
3.00K OHM	1/10W	1%	±100 ppm	9C08052A3001F	Tape & Reel
3.01K OHM	1/10W	1%	±100 ppm	9C08052A3011F	Tape & Reel
3.09K OHM	1/10W	1%	±100 ppm	9C08052A3091F	Tape & Reel
3.16K OHM	1/10W	1%	±100 ppm	9C08052A3161F	Tape & Reel
3.24K OHM	1/10W	1%	±100 ppm	9C08052A3241F	Tape & Reel
3.30K OHM	1/10W	1%	±100 ppm	9C08052A3301F	Tape & Reel
3.32K OHM	1/10W	1%	±100 ppm	9C08052A3321F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
3.40K OHM	1/10W	1%	±100 ppm	9C08052A3401F	Tape & Reel
3.48K OHM	1/10W	1%	±100 ppm	9C08052A3481F	Tape & Reel
3.57K OHM	1/10W	1%	±100 ppm	9C08052A3571F	Tape & Reel
3.60K OHM	1/10W	1%	±100 ppm	9C08052A3601F	Tape & Reel
3.65K OHM	1/10W	1%	±100 ppm	9C08052A3651F	Tape & Reel
3.74K OHM	1/10W	1%	±100 ppm	9C08052A3741F	Tape & Reel
3.83K OHM	1/10W	1%	±100 ppm	9C08052A3831F	Tape & Reel
3.90K OHM	1/10W	1%	±100 ppm	9C08052A3901F	Tape & Reel
3.92K OHM	1/10W	1%	±100 ppm	9C08052A3921F	Tape & Reel
4.02K OHM	1/10W	1%	±100 ppm	9C08052A4021F	Tape & Reel
4.12K OHM	1/10W	1%	±100 ppm	9C08052A4121F	Tape & Reel
4.22K OHM	1/10W	1%	±100 ppm	9C08052A4221F	Tape & Reel
4.30K OHM	1/10W	1%	±100 ppm	9C08052A4301F	Tape & Reel
4.32K OHM	1/10W	1%	±100 ppm	9C08052A4321F	Tape & Reel
4.42K OHM	1/10W	1%	±100 ppm	9C08052A4421F	Tape & Reel
4.53K OHM	1/10W	1%	±100 ppm	9C08052A4531F	Tape & Reel
4.64K OHM	1/10W	1%	±100 ppm	9C08052A4641F	Tape & Reel
4.70K OHM	1/10W	1%	±100 ppm	9C08052A4701F	Tape & Reel
4.75K OHM	1/10W	1%	±100 ppm	9C08052A4751F	Tape & Reel
4.87K OHM	1/10W	1%	±100 ppm	9C08052A4871F	Tape & Reel
4.99K OHM	1/10W	1%	±100 ppm	9C08052A4991F	Tape & Reel
5.10K OHM	1/10W	1%	±100 ppm	9C08052A5101F	Tape & Reel
5.11K OHM	1/10W	1%	±100 ppm	9C08052A5111F	Tape & Reel
5.23K OHM	1/10W	1%	±100 ppm	9C08052A5231F	Tape & Reel
5.36K OHM	1/10W	1%	±100 ppm	9C08052A5361F	Tape & Reel
5.49K OHM	1/10W	1%	±100 ppm	9C08052A5491F	Tape & Reel
5.60K OHM	1/10W	1%	±100 ppm	9C08052A5601F	Tape & Reel
5.62K OHM	1/10W	1%	±100 ppm	9C08052A5621F	Tape & Reel
5.76K OHM	1/10W	1%	±100 ppm	9C08052A5761F	Tape & Reel
5.90K OHM	1/10W	1%	±100 ppm	9C08052A5901F	Tape & Reel
6.04K OHM	1/10W	1%	±100 ppm	9C08052A6041F	Tape & Reel
6.19K OHM	1/10W	1%	±100 ppm	9C08052A6191F	Tape & Reel
6.20K OHM	1/10W	1%	±100 ppm	9C08052A6201F	Tape & Reel
6.34K OHM	1/10W	1%	±100 ppm	9C08052A6341F	Tape & Reel
6.49K OHM	1/10W	1%	±100 ppm	9C08052A6491F	Tape & Reel
6.65K OHM	1/10W	1%	±100 ppm	9C08052A6651F	Tape & Reel
6.80K OHM	1/10W	1%	±100 ppm	9C08052A6801F	Tape & Reel
6.81K OHM	1/10W	1%	±100 ppm	9C08052A6811F	Tape & Reel
6.98K OHM	1/10W	1%	±100 ppm	9C08052A6981F	Tape & Reel
7.15K OHM	1/10W	1%	±100 ppm	9C08052A7151F	Tape & Reel
7.32K OHM	1/10W	1%	±100 ppm	9C08052A7321F	Tape & Reel
7.50K OHM	1/10W	1%	±100 ppm	9C08052A7501F	Tape & Reel
7.68K OHM	1/10W	1%	±100 ppm	9C08052A7681F	Tape & Reel
7.87K OHM	1/10W	1%	±100 ppm	9C08052A7871F	Tape & Reel
8.06K OHM	1/10W	1%	±100 ppm	9C08052A8061F	Tape & Reel
8.20K OHM	1/10W	1%	±100 ppm	9C08052A8201F	Tape & Reel
8.25K OHM	1/10W	1%	±100 ppm	9C08052A8251F	Tape & Reel
8.45K OHM	1/10W	1%	±100 ppm	9C08052A8451F	Tape & Reel
8.66K OHM	1/10W	1%	±100 ppm	9C08052A8661F	Tape & Reel
8.87K OHM	1/10W	1%	±100 ppm	9C08052A8871F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
9.09K OHM	1/10W	1%	±100 ppm	9C08052A9091F	Tape & Reel
9.10K OHM	1/10W	1%	±100 ppm	9C08052A9101F	Tape & Reel
9.31K OHM	1/10W	1%	±100 ppm	9C08052A9311F	Tape & Reel
9.53K OHM	1/10W	1%	±100 ppm	9C08052A9531F	Tape & Reel
9.76K OHM	1/10W	1%	±100 ppm	9C08052A9761F	Tape & Reel
10.0K OHM	1/10W	1%	±100 ppm	9C08052A1002F	Tape & Reel
10.2K OHM	1/10W	1%	±100 ppm	9C08052A1022F	Tape & Reel
10.5K OHM	1/10W	1%	±100 ppm	9C08052A1052F	Tape & Reel
10.7K OHM	1/10W	1%	±100 ppm	9C08052A1072F	Tape & Reel
11.0K OHM	1/10W	1%	±100 ppm	9C08052A1102F	Tape & Reel
11.3K OHM	1/10W	1%	±100 ppm	9C08052A1132F	Tape & Reel
11.5K OHM	1/10W	1%	±100 ppm	9C08052A1152F	Tape & Reel
11.8K OHM	1/10W	1%	±100 ppm	9C08052A1182F	Tape & Reel
12.0K OHM	1/10W	1%	±100 ppm	9C08052A1202F	Tape & Reel
12.1K OHM	1/10W	1%	±100 ppm	9C08052A1212F	Tape & Reel
12.4K OHM	1/10W	1%	±100 ppm	9C08052A1242F	Tape & Reel
12.7K OHM	1/10W	1%	±100 ppm	9C08052A1272F	Tape & Reel
13K OHM	1/10W	1%	±100 ppm	9C08052A1302F	Tape & Reel
13.3K OHM	1/10W	1%	±100 ppm	9C08052A1332F	Tape & Reel
13.7K OHM	1/10W	1%	±100 ppm	9C08052A1372F	Tape & Reel
14K OHM	1/10W	1%	±100 ppm	9C08052A1402F	Tape & Reel
14.3K OHM	1/10W	1%	±100 ppm	9C08052A1432F	Tape & Reel
14.7K OHM	1/10W	1%	±100 ppm	9C08052A1472F	Tape & Reel
15K OHM	1/10W	1%	±100 ppm	9C08052A1502F	Tape & Reel
15.4K OHM	1/10W	1%	±100 ppm	9C08052A1542F	Tape & Reel
15.8K OHM	1/10W	1%	±100 ppm	9C08052A1582F	Tape & Reel
16K OHM	1/10W	1%	±100 ppm	9C08052A1602F	Tape & Reel
16.2K OHM	1/10W	1%	±100 ppm	9C08052A1622F	Tape & Reel
16.5K OHM	1/10W	1%	±100 ppm	9C08052A1652F	Tape & Reel
16.9K OHM	1/10W	1%	±100 ppm	9C08052A1692F	Tape & Reel
17.4K OHM	1/10W	1%	±100 ppm	9C08052A1742F	Tape & Reel
17.8K OHM	1/10W	1%	±100 ppm	9C08052A1782F	Tape & Reel
18K OHM	1/10W	1%	±100 ppm	9C08052A1802F	Tape & Reel
18.2K OHM	1/10W	1%	±100 ppm	9C08052A1822F	Tape & Reel
18.7K OHM	1/10W	1%	±100 ppm	9C08052A1872F	Tape & Reel
19.1K OHM	1/10W	1%	±100 ppm	9C08052A1912F	Tape & Reel
19.6K OHM	1/10W	1%	±100 ppm	9C08052A1962F	Tape & Reel
20K OHM	1/10W	1%	±100 ppm	9C08052A2002F	Tape & Reel
20.5K OHM	1/10W	1%	±100 ppm	9C08052A2052F	Tape & Reel
21K OHM	1/10W	1%	±100 ppm	9C08052A2102F	Tape & Reel
21.5K OHM	1/10W	1%	±100 ppm	9C08052A2152F	Tape & Reel
22K OHM	1/10W	1%	±100 ppm	9C08052A2202F	Tape & Reel
22.1K OHM	1/10W	1%	±100 ppm	9C08052A2212F	Tape & Reel
22.6K OHM	1/10W	1%	±100 ppm	9C08052A2262F	Tape & Reel
23.2K OHM	1/10W	1%	±100 ppm	9C08052A2322F	Tape & Reel
23.7K OHM	1/10W	1%	±100 ppm	9C08052A2372F	Tape & Reel
24K OHM	1/10W	1%	±100 ppm	9C08052A2402F	Tape & Reel
24.3K OHM	1/10W	1%	±100 ppm	9C08052A2432F	Tape & Reel
24.9K OHM	1/10W	1%	±100 ppm	9C08052A2492F	Tape & Reel
25.5K OHM	1/10W	1%	±100 ppm	9C08052A2552F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
26.1K OHM	1/10W	1%	±100 ppm	9C08052A2612F	Tape & Reel
26.7K OHM	1/10W	1%	±100 ppm	9C08052A2672F	Tape & Reel
27K OHM	1/10W	1%	±100 ppm	9C08052A2702F	Tape & Reel
27.4K OHM	1/10W	1%	±100 ppm	9C08052A2742F	Tape & Reel
28K OHM	1/10W	1%	±100 ppm	9C08052A2802F	Tape & Reel
28.7K OHM	1/10W	1%	±100 ppm	9C08052A2872F	Tape & Reel
29.4K OHM	1/10W	1%	±100 ppm	9C08052A2942F	Tape & Reel
30K OHM	1/10W	1%	±100 ppm	9C08052A3002F	Tape & Reel
30.1K OHM	1/10W	1%	±100 ppm	9C08052A3012F	Tape & Reel
30.9K OHM	1/10W	1%	±100 ppm	9C08052A3092F	Tape & Reel
31.6K OHM	1/10W	1%	±100 ppm	9C08052A3162F	Tape & Reel
32.4K OHM	1/10W	1%	±100 ppm	9C08052A3242F	Tape & Reel
33K OHM	1/10W	1%	±100 ppm	9C08052A3302F	Tape & Reel
33.2K OHM	1/10W	1%	±100 ppm	9C08052A3322F	Tape & Reel
34K OHM	1/10W	1%	±100 ppm	9C08052A3402F	Tape & Reel
34.8K OHM	1/10W	1%	±100 ppm	9C08052A3482F	Tape & Reel
35.7K OHM	1/10W	1%	±100 ppm	9C08052A3572F	Tape & Reel
36K OHM	1/10W	1%	±100 ppm	9C08052A3602F	Tape & Reel
36.5K OHM	1/10W	1%	±100 ppm	9C08052A3652F	Tape & Reel
37.4K OHM	1/10W	1%	±100 ppm	9C08052A3742F	Tape & Reel
38.3K OHM	1/10W	1%	±100 ppm	9C08052A3832F	Tape & Reel
39K OHM	1/10W	1%	±100 ppm	9C08052A3902F	Tape & Reel
39.2K OHM	1/10W	1%	±100 ppm	9C08052A3922F	Tape & Reel
40.2K OHM	1/10W	1%	±100 ppm	9C08052A4022F	Tape & Reel
41.2K OHM	1/10W	1%	±100 ppm	9C08052A4122F	Tape & Reel
42.2K OHM	1/10W	1%	±100 ppm	9C08052A4222F	Tape & Reel
43K OHM	1/10W	1%	±100 ppm	9C08052A4302F	Tape & Reel
43.2K OHM	1/10W	1%	±100 ppm	9C08052A4322F	Tape & Reel
44.2K OHM	1/10W	1%	±100 ppm	9C08052A4422F	Tape & Reel
45.3K OHM	1/10W	1%	±100 ppm	9C08052A4532F	Tape & Reel
46.4K OHM	1/10W	1%	±100 ppm	9C08052A4642F	Tape & Reel
47K OHM	1/10W	1%	±100 ppm	9C08052A4702F	Tape & Reel
47.5K OHM	1/10W	1%	±100 ppm	9C08052A4752F	Tape & Reel
48.7K OHM	1/10W	1%	±100 ppm	9C08052A4872F	Tape & Reel
49.9K OHM	1/10W	1%	±100 ppm	9C08052A4992F	Tape & Reel
51K OHM	1/10W	1%	±100 ppm	9C08052A5102F	Tape & Reel
51.1K OHM	1/10W	1%	±100 ppm	9C08052A5112F	Tape & Reel
52.3K OHM	1/10W	1%	±100 ppm	9C08052A5232F	Tape & Reel
53.6K OHM	1/10W	1%	±100 ppm	9C08052A5362F	Tape & Reel
54.9K OHM	1/10W	1%	±100 ppm	9C08052A5492F	Tape & Reel
56K OHM	1/10W	1%	±100 ppm	9C08052A5602F	Tape & Reel
56.2K OHM	1/10W	1%	±100 ppm	9C08052A5622F	Tape & Reel
57.6K OHM	1/10W	1%	±100 ppm	9C08052A5762F	Tape & Reel
59K OHM	1/10W	1%	±100 ppm	9C08052A5902F	Tape & Reel
60.4K OHM	1/10W	1%	±100 ppm	9C08052A6042F	Tape & Reel
61.9K OHM	1/10W	1%	±100 ppm	9C08052A6192F	Tape & Reel
62K OHM	1/10W	1%	±100 ppm	9C08052A6202F	Tape & Reel
63.4K OHM	1/10W	1%	±100 ppm	9C08052A6342F	Tape & Reel
66.5K OHM	1/10W	1%	±100 ppm	9C08052A6652F	Tape & Reel
68K OHM	1/10W	1%	±100 ppm	9C08052A6802F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
68.1K OHM	1/10W	1%	±100 ppm	9C08052A6812F	Tape & Reel
69.8K OHM	1/10W	1%	±100 ppm	9C08052A6982F	Tape & Reel
71.5K OHM	1/10W	1%	±100 ppm	9C08052A7152F	Tape & Reel
73.2K OHM	1/10W	1%	±100 ppm	9C08052A7322F	Tape & Reel
75K OHM	1/10W	1%	±100 ppm	9C08052A7502F	Tape & Reel
76.8K OHM	1/10W	1%	±100 ppm	9C08052A7682F	Tape & Reel
78.7K OHM	1/10W	1%	±100 ppm	9C08052A7872F	Tape & Reel
80.6K OHM	1/10W	1%	±100 ppm	9C08052A8062F	Tape & Reel
82K OHM	1/10W	1%	±100 ppm	9C08052A8202F	Tape & Reel
82.5K OHM	1/10W	1%	±100 ppm	9C08052A8252F	Tape & Reel
84.5K OHM	1/10W	1%	±100 ppm	9C08052A8452F	Tape & Reel
86.6K OHM	1/10W	1%	±100 ppm	9C08052A8662F	Tape & Reel
88.7K OHM	1/10W	1%	±100 ppm	9C08052A8872F	Tape & Reel
90.9K OHM	1/10W	1%	±100 ppm	9C08052A9092F	Tape & Reel
91K OHM	1/10W	1%	±100 ppm	9C08052A9102F	Tape & Reel
93.1K OHM	1/10W	1%	±100 ppm	9C08052A9312F	Tape & Reel
95.3K OHM	1/10W	1%	±100 ppm	9C08052A9532F	Tape & Reel
97.6K OHM	1/10W	1%	±100 ppm	9C08052A9762F	Tape & Reel
100K OHM	1/10W	1%	±100 ppm	9C08052A1003F	Tape & Reel
102K OHM	1/10W	1%	±100 ppm	9C08052A1023F	Tape & Reel
105K OHM	1/10W	1%	±100 ppm	9C08052A1053F	Tape & Reel
107K OHM	1/10W	1%	±100 ppm	9C08052A1073F	Tape & Reel
110K OHM	1/10W	1%	±100 ppm	9C08052A1103F	Tape & Reel
113K OHM	1/10W	1%	±100 ppm	9C08052A1133F	Tape & Reel
115K OHM	1/10W	1%	±100 ppm	9C08052A1153F	Tape & Reel
118K OHM	1/10W	1%	±100 ppm	9C08052A1183F	Tape & Reel
120K OHM	1/10W	1%	±100 ppm	9C08052A1203F	Tape & Reel
121K OHM	1/10W	1%	±100 ppm	9C08052A1213F	Tape & Reel
124K OHM	1/10W	1%	±100 ppm	9C08052A1243F	Tape & Reel
127K OHM	1/10W	1%	±100 ppm	9C08052A1273F	Tape & Reel
130K OHM	1/10W	1%	±100 ppm	9C08052A1303F	Tape & Reel
133K OHM	1/10W	1%	±100 ppm	9C08052A1333F	Tape & Reel
137K OHM	1/10W	1%	±100 ppm	9C08052A1373F	Tape & Reel
140K OHM	1/10W	1%	±100 ppm	9C08052A1403F	Tape & Reel
143K OHM	1/10W	1%	±100 ppm	9C08052A1433F	Tape & Reel
147K OHM	1/10W	1%	±100 ppm	9C08052A1473F	Tape & Reel
150K OHM	1/10W	1%	±100 ppm	9C08052A1503F	Tape & Reel
154K OHM	1/10W	1%	±100 ppm	9C08052A1543F	Tape & Reel
158K OHM	1/10W	1%	±100 ppm	9C08052A1583F	Tape & Reel
160K OHM	1/10W	1%	±100 ppm	9C08052A1603F	Tape & Reel
162K OHM	1/10W	1%	±100 ppm	9C08052A1623F	Tape & Reel
165K OHM	1/10W	1%	±100 ppm	9C08052A1653F	Tape & Reel
169K OHM	1/10W	1%	±100 ppm	9C08052A1693F	Tape & Reel
174K OHM	1/10W	1%	±100 ppm	9C08052A1743F	Tape & Reel
178K OHM	1/10W	1%	±100 ppm	9C08052A1783F	Tape & Reel
180K OHM	1/10W	1%	±100 ppm	9C08052A1803F	Tape & Reel
182K OHM	1/10W	1%	±100 ppm	9C08052A1823F	Tape & Reel
187K OHM	1/10W	1%	±100 ppm	9C08052A1873F	Tape & Reel
191K OHM	1/10W	1%	±100 ppm	9C08052A1913F	Tape & Reel
196K OHM	1/10W	1%	±100 ppm	9C08052A1963F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 0805

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
200K OHM	1/10W	1%	±100 ppm	9C08052A2003F	Tape & Reel
205K OHM	1/10W	1%	±100 ppm	9C08052A2053F	Tape & Reel
210K OHM	1/10W	1%	±100 ppm	9C08052A2103F	Tape & Reel
215K OHM	1/10W	1%	±100 ppm	9C08052A2153F	Tape & Reel
220K OHM	1/10W	1%	±100 ppm	9C08052A2203F	Tape & Reel
221K OHM	1/10W	1%	±100 ppm	9C08052A2213F	Tape & Reel
226K OHM	1/10W	1%	±100 ppm	9C08052A2263F	Tape & Reel
232K OHM	1/10W	1%	±100 ppm	9C08052A2323F	Tape & Reel
237K OHM	1/10W	1%	±100 ppm	9C08052A2373F	Tape & Reel
240K OHM	1/10W	1%	±100 ppm	9C08052A2403F	Tape & Reel
243K OHM	1/10W	1%	±100 ppm	9C08052A2433F	Tape & Reel
249K OHM	1/10W	1%	±100 ppm	9C08052A2493F	Tape & Reel
255K OHM	1/10W	1%	±100 ppm	9C08052A2553F	Tape & Reel
261K OHM	1/10W	1%	±100 ppm	9C08052A2613F	Tape & Reel
267K OHM	1/10W	1%	±100 ppm	9C08052A2673F	Tape & Reel
270K OHM	1/10W	1%	±100 ppm	9C08052A2703F	Tape & Reel
274K OHM	1/10W	1%	±100 ppm	9C08052A2743F	Tape & Reel
280K OHM	1/10W	1%	±100 ppm	9C08052A2803F	Tape & Reel
287K OHM	1/10W	1%	±100 ppm	9C08052A2873F	Tape & Reel
294K OHM	1/10W	1%	±100 ppm	9C08052A2943F	Tape & Reel
300K OHM	1/10W	1%	±100 ppm	9C08052A3003F	Tape & Reel
301K OHM	1/10W	1%	±100 ppm	9C08052A3013F	Tape & Reel
309K OHM	1/10W	1%	±100 ppm	9C08052A3093F	Tape & Reel
316K OHM	1/10W	1%	±100 ppm	9C08052A3163F	Tape & Reel
324K OHM	1/10W	1%	±100 ppm	9C08052A3243F	Tape & Reel
330K OHM	1/10W	1%	±100 ppm	9C08052A3303F	Tape & Reel
332K OHM	1/10W	1%	±100 ppm	9C08052A3323F	Tape & Reel
340K OHM	1/10W	1%	±100 ppm	9C08052A3403F	Tape & Reel
348K OHM	1/10W	1%	±100 ppm	9C08052A3483F	Tape & Reel
357K OHM	1/10W	1%	±100 ppm	9C08052A3573F	Tape & Reel
360K OHM	1/10W	1%	±100 ppm	9C08052A3603F	Tape & Reel
365K OHM	1/10W	1%	±100 ppm	9C08052A3653F	Tape & Reel
374K OHM	1/10W	1%	±100 ppm	9C08052A3743F	Tape & Reel
383K OHM	1/10W	1%	±100 ppm	9C08052A3833F	Tape & Reel
390K OHM	1/10W	1%	±100 ppm	9C08052A3903F	Tape & Reel
392K OHM	1/10W	1%	±100 ppm	9C08052A3923F	Tape & Reel
402K OHM	1/10W	1%	±100 ppm	9C08052A4023F	Tape & Reel
412K OHM	1/10W	1%	±100 ppm	9C08052A4123F	Tape & Reel
422K OHM	1/10W	1%	±100 ppm	9C08052A4223F	Tape & Reel
430K OHM	1/10W	1%	±100 ppm	9C08052A4303F	Tape & Reel
432K OHM	1/10W	1%	±100 ppm	9C08052A4323F	Tape & Reel
442K OHM	1/10W	1%	±100 ppm	9C08052A4423F	Tape & Reel
453K OHM	1/10W	1%	±100 ppm	9C08052A4533F	Tape & Reel
464K OHM	1/10W	1%	±100 ppm	9C08052A4643F	Tape & Reel
470K OHM	1/10W	1%	±100 ppm	9C08052A4703F	Tape & Reel
475K OHM	1/10W	1%	±100 ppm	9C08052A4753F	Tape & Reel
487K OHM	1/10W	1%	±100 ppm	9C08052A4873F	Tape & Reel
499K OHM	1/10W	1%	±100 ppm	9C08052A4993F	Tape & Reel
510K OHM	1/10W	1%	±100 ppm	9C08052A5103F	Tape & Reel
511K OHM	1/10W	1%	±100 ppm	9C08052A5113F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
523K OHM	1/10W	1%	±100 ppm	9C08052A5233F	Tape & Reel
536K OHM	1/10W	1%	±100 ppm	9C08052A5363F	Tape & Reel
549K OHM	1/10W	1%	±100 ppm	9C08052A5493F	Tape & Reel
560K OHM	1/10W	1%	±100 ppm	9C08052A5603F	Tape & Reel
562K OHM	1/10W	1%	±100 ppm	9C08052A5623F	Tape & Reel
576K OHM	1/10W	1%	±100 ppm	9C08052A5763F	Tape & Reel
590K OHM	1/10W	1%	±100 ppm	9C08052A5903F	Tape & Reel
604K OHM	1/10W	1%	±100 ppm	9C08052A6043F	Tape & Reel
619K OHM	1/10W	1%	±100 ppm	9C08052A6193F	Tape & Reel
620K OHM	1/10W	1%	±100 ppm	9C08052A6203F	Tape & Reel
634K OHM	1/10W	1%	±100 ppm	9C08052A6343F	Tape & Reel
649K OHM	1/10W	1%	±100 ppm	9C08052A6493F	Tape & Reel
665K OHM	1/10W	1%	±100 ppm	9C08052A6653F	Tape & Reel
680K OHM	1/10W	1%	±100 ppm	9C08052A6803F	Tape & Reel
681K OHM	1/10W	1%	±100 ppm	9C08052A6813F	Tape & Reel
698K OHM	1/10W	1%	±100 ppm	9C08052A6983F	Tape & Reel
715K OHM	1/10W	1%	±100 ppm	9C08052A7153F	Tape & Reel
732K OHM	1/10W	1%	±100 ppm	9C08052A7323F	Tape & Reel
750K OHM	1/10W	1%	±100 ppm	9C08052A7503F	Tape & Reel
768K OHM	1/10W	1%	±100 ppm	9C08052A7683F	Tape & Reel
787K OHM	1/10W	1%	±100 ppm	9C08052A7873F	Tape & Reel
806K OHM	1/10W	1%	±100 ppm	9C08052A8063F	Tape & Reel
820K OHM	1/10W	1%	±100 ppm	9C08052A8203F	Tape & Reel
825K OHM	1/10W	1%	±100 ppm	9C08052A8253F	Tape & Reel
845K OHM	1/10W	1%	±100 ppm	9C08052A8453F	Tape & Reel
866K OHM	1/10W	1%	±100 ppm	9C08052A8663F	Tape & Reel
887K OHM	1/10W	1%	±100 ppm	9C08052A8873F	Tape & Reel
909K OHM	1/10W	1%	±100 ppm	9C08052A9093F	Tape & Reel
910K OHM	1/10W	1%	±100 ppm	9C08052A9103F	Tape & Reel
931K OHM	1/10W	1%	±100 ppm	9C08052A9313F	Tape & Reel
953K OHM	1/10W	1%	±100 ppm	9C08052A9533F	Tape & Reel
976K OHM	1/10W	1%	±100 ppm	9C08052A9763F	Tape & Reel
1M OHM	1/10W	1%	±100 ppm	9C08052A1004F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.00 OHM	1/4W	1%	±250 ppm	9C12063A1R00F	Tape & Reel
1.02 OHM	1/4W	1%	±250 ppm	9C12063A1R02F	Tape & Reel
1.05 OHM	1/4W	1%	±250 ppm	9C12063A1R05F	Tape & Reel
1.07 OHM	1/4W	1%	±250 ppm	9C12063A1R07F	Tape & Reel
1.1 OHM	1/4W	1%	±250 ppm	9C12063A1R10F	Tape & Reel
1.13 OHM	1/4W	1%	±250 ppm	9C12063A1R13F	Tape & Reel
1.15 OHM	1/4W	1%	±250 ppm	9C12063A1R15F	Tape & Reel
1.18 OHM	1/4W	1%	±250 ppm	9C12063A1R18F	Tape & Reel
1.2 OHM	1/4W	1%	±250 ppm	9C12063A1R20F	Tape & Reel
1.21 OHM	1/4W	1%	±250 ppm	9C12063A1R21F	Tape & Reel
1.24 OHM	1/4W	1%	±250 ppm	9C12063A1R24F	Tape & Reel
1.27 OHM	1/4W	1%	±250 ppm	9C12063A1R27F	Tape & Reel
1.3 OHM	1/4W	1%	±250 ppm	9C12063A1R30F	Tape & Reel
1.33 OHM	1/4W	1%	±250 ppm	9C12063A1R33F	Tape & Reel
1.37 OHM	1/4W	1%	±250 ppm	9C12063A1R37F	Tape & Reel
1.4 OHM	1/4W	1%	±250 ppm	9C12063A1R40F	Tape & Reel
1.43 OHM	1/4W	1%	±250 ppm	9C12063A1R43F	Tape & Reel
1.47 OHM	1/4W	1%	±250 ppm	9C12063A1R47F	Tape & Reel
1.5 OHM	1/4W	1%	±250 ppm	9C12063A1R50F	Tape & Reel
1.54 OHM	1/4W	1%	±250 ppm	9C12063A1R54F	Tape & Reel
1.58 OHM	1/4W	1%	±250 ppm	9C12063A1R58F	Tape & Reel
1.6 OHM	1/4W	1%	±250 ppm	9C12063A1R60F	Tape & Reel
1.62 OHM	1/4W	1%	±250 ppm	9C12063A1R62F	Tape & Reel
1.65 OHM	1/4W	1%	±250 ppm	9C12063A1R65F	Tape & Reel
1.69 OHM	1/4W	1%	±250 ppm	9C12063A1R69F	Tape & Reel
1.74 OHM	1/4W	1%	±250 ppm	9C12063A1R74F	Tape & Reel
1.78 OHM	1/4W	1%	±250 ppm	9C12063A1R78F	Tape & Reel
1.8 OHM	1/4W	1%	±250 ppm	9C12063A1R80F	Tape & Reel
1.82 OHM	1/4W	1%	±250 ppm	9C12063A1R82F	Tape & Reel
1.87 OHM	1/4W	1%	±250 ppm	9C12063A1R87F	Tape & Reel
1.91 OHM	1/4W	1%	±250 ppm	9C12063A1R91F	Tape & Reel
1.96 OHM	1/4W	1%	±250 ppm	9C12063A1R96F	Tape & Reel
2 OHM	1/4W	1%	±250 ppm	9C12063A2R00F	Tape & Reel
2.05 OHM	1/4W	1%	±250 ppm	9C12063A2R05F	Tape & Reel
2.1 OHM	1/4W	1%	±250 ppm	9C12063A2R10F	Tape & Reel
2.15 OHM	1/4W	1%	±250 ppm	9C12063A2R15F	Tape & Reel
2.2 OHM	1/4W	1%	±250 ppm	9C12063A2R20F	Tape & Reel
2.21 OHM	1/4W	1%	±250 ppm	9C12063A2R21F	Tape & Reel
2.26 OHM	1/4W	1%	±250 ppm	9C12063A2R26F	Tape & Reel
2.32 OHM	1/4W	1%	±250 ppm	9C12063A2R32F	Tape & Reel
2.37 OHM	1/4W	1%	±250 ppm	9C12063A2R37F	Tape & Reel
2.4 OHM	1/4W	1%	±250 ppm	9C12063A2R40F	Tape & Reel
2.43 OHM	1/4W	1%	±250 ppm	9C12063A2R43F	Tape & Reel
2.49 OHM	1/4W	1%	±250 ppm	9C12063A2R49F	Tape & Reel
2.55 OHM	1/4W	1%	±250 ppm	9C12063A2R55F	Tape & Reel
2.61 OHM	1/4W	1%	±250 ppm	9C12063A2R61F	Tape & Reel
2.67 OHM	1/4W	1%	±250 ppm	9C12063A2R67F	Tape & Reel
2.7 OHM	1/4W	1%	±250 ppm	9C12063A2R70F	Tape & Reel
2.74 OHM	1/4W	1%	±250 ppm	9C12063A2R74F	Tape & Reel
2.8 OHM	1/4W	1%	±250 ppm	9C12063A2R80F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
2.87 OHM	1/4W	1%	±250 ppm	9C12063A2R87F	Tape & Reel
2.94 OHM	1/4W	1%	±250 ppm	9C12063A2R94F	Tape & Reel
3.0 OHM	1/4W	1%	±250 ppm	9C12063A3R00F	Tape & Reel
3.01 OHM	1/4W	1%	±250 ppm	9C12063A3R01F	Tape & Reel
3.09 OHM	1/4W	1%	±250 ppm	9C12063A3R09F	Tape & Reel
3.16 OHM	1/4W	1%	±250 ppm	9C12063A3R16F	Tape & Reel
3.24 OHM	1/4W	1%	±250 ppm	9C12063A3R24F	Tape & Reel
3.3 OHM	1/4W	1%	±250 ppm	9C12063A3R30F	Tape & Reel
3.32 OHM	1/4W	1%	±250 ppm	9C12063A3R32F	Tape & Reel
3.4 OHM	1/4W	1%	±250 ppm	9C12063A3R40F	Tape & Reel
3.48 OHM	1/4W	1%	±250 ppm	9C12063A3R48F	Tape & Reel
3.57 OHM	1/4W	1%	±250 ppm	9C12063A3R57F	Tape & Reel
3.6 OHM	1/4W	1%	±250 ppm	9C12063A3R60F	Tape & Reel
3.65 OHM	1/4W	1%	±250 ppm	9C12063A3R65F	Tape & Reel
3.74 OHM	1/4W	1%	±250 ppm	9C12063A3R74F	Tape & Reel
3.83 OHM	1/4W	1%	±250 ppm	9C12063A3R83F	Tape & Reel
3.9 OHM	1/4W	1%	±250 ppm	9C12063A3R90F	Tape & Reel
3.92 OHM	1/4W	1%	±250 ppm	9C12063A3R92F	Tape & Reel
4.02 OHM	1/4W	1%	±250 ppm	9C12063A4R02F	Tape & Reel
4.12 OHM	1/4W	1%	±250 ppm	9C12063A4R12F	Tape & Reel
4.22 OHM	1/4W	1%	±250 ppm	9C12063A4R22F	Tape & Reel
4.3 OHM	1/4W	1%	±250 ppm	9C12063A4R30F	Tape & Reel
4.32 OHM	1/4W	1%	±250 ppm	9C12063A4R32F	Tape & Reel
4.42 OHM	1/4W	1%	±250 ppm	9C12063A4R42F	Tape & Reel
4.53 OHM	1/4W	1%	±250 ppm	9C12063A4R53F	Tape & Reel
4.64 OHM	1/4W	1%	±250 ppm	9C12063A4R64F	Tape & Reel
4.7 OHM	1/4W	1%	±250 ppm	9C12063A4R70F	Tape & Reel
4.75 OHM	1/4W	1%	±250 ppm	9C12063A4R75F	Tape & Reel
4.87 OHM	1/4W	1%	±250 ppm	9C12063A4R87F	Tape & Reel
4.99 OHM	1/4W	1%	±250 ppm	9C12063A4R99F	Tape & Reel
5.1 OHM	1/4W	1%	±200 ppm	9C12063A5R10F	Tape & Reel
5.11 OHM	1/4W	1%	±200 ppm	9C12063A5R11F	Tape & Reel
5.23 OHM	1/4W	1%	±200 ppm	9C12063A5R23F	Tape & Reel
5.36 OHM	1/4W	1%	±200 ppm	9C12063A5R36F	Tape & Reel
5.49 OHM	1/4W	1%	±200 ppm	9C12063A5R49F	Tape & Reel
5.6 OHM	1/4W	1%	±200 ppm	9C12063A5R60F	Tape & Reel
5.62 OHM	1/4W	1%	±200 ppm	9C12063A5R62F	Tape & Reel
5.76 OHM	1/4W	1%	±200 ppm	9C12063A5R76F	Tape & Reel
5.9 OHM	1/4W	1%	±200 ppm	9C12063A5R90F	Tape & Reel
6.04 OHM	1/4W	1%	±200 ppm	9C12063A6R04F	Tape & Reel
6.19 OHM	1/4W	1%	±200 ppm	9C12063A6R19F	Tape & Reel
6.2 OHM	1/4W	1%	±200 ppm	9C12063A6R20F	Tape & Reel
6.34 OHM	1/4W	1%	±200 ppm	9C12063A6R34F	Tape & Reel
6.49 OHM	1/4W	1%	±200 ppm	9C12063A6R49F	Tape & Reel
6.65 OHM	1/4W	1%	±200 ppm	9C12063A6R65F	Tape & Reel
6.8 OHM	1/4W	1%	±200 ppm	9C12063A6R80F	Tape & Reel
6.81 OHM	1/4W	1%	±200 ppm	9C12063A6R81F	Tape & Reel
6.98 OHM	1/4W	1%	±200 ppm	9C12063A6R98F	Tape & Reel
7.15 OHM	1/4W	1%	±200 ppm	9C12063A7R15F	Tape & Reel
7.32 OHM	1/4W	1%	±200 ppm	9C12063A7R32F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
7.5 OHM	1/4W	1%	±200 ppm	9C12063A7R50F	Tape & Reel
7.68 OHM	1/4W	1%	±200 ppm	9C12063A7R68F	Tape & Reel
7.87 OHM	1/4W	1%	±200 ppm	9C12063A7R87F	Tape & Reel
8.06 OHM	1/4W	1%	±200 ppm	9C12063A8R06F	Tape & Reel
8.2 OHM	1/4W	1%	±200 ppm	9C12063A8R20F	Tape & Reel
8.25 OHM	1/4W	1%	±200 ppm	9C12063A8R25F	Tape & Reel
8.45 OHM	1/4W	1%	±200 ppm	9C12063A8R45F	Tape & Reel
8.66 OHM	1/4W	1%	±200 ppm	9C12063A8R66F	Tape & Reel
8.87 OHM	1/4W	1%	±200 ppm	9C12063A8R87F	Tape & Reel
9.09 OHM	1/4W	1%	±200 ppm	9C12063A9R09F	Tape & Reel
9.1 OHM	1/4W	1%	±200 ppm	9C12063A9R10F	Tape & Reel
9.31 OHM	1/4W	1%	±200 ppm	9C12063A9R31F	Tape & Reel
9.53 OHM	1/4W	1%	±200 ppm	9C12063A9R53F	Tape & Reel
9.76 OHM	1/4W	1%	±200 ppm	9C12063A9R76F	Tape & Reel
10.0 OHM	1/4W	1%	±100 ppm	9C12063A10R0F	Tape & Reel
10.2 OHM	1/4W	1%	±100 ppm	9C12063A10R2F	Tape & Reel
10.5 OHM	1/4W	1%	±100 ppm	9C12063A10R5F	Tape & Reel
10.7 OHM	1/4W	1%	±100 ppm	9C12063A10R7F	Tape & Reel
11.0 OHM	1/4W	1%	±100 ppm	9C12063A11R0F	Tape & Reel
11.3 OHM	1/4W	1%	±100 ppm	9C12063A11R3F	Tape & Reel
11.5 OHM	1/4W	1%	±100 ppm	9C12063A11R5F	Tape & Reel
11.8 OHM	1/4W	1%	±100 ppm	9C12063A11R8F	Tape & Reel
12.0 OHM	1/4W	1%	±100 ppm	9C12063A12R0F	Tape & Reel
12.1 OHM	1/4W	1%	±100 ppm	9C12063A12R1F	Tape & Reel
12.4 OHM	1/4W	1%	±100 ppm	9C12063A12R4F	Tape & Reel
12.7 OHM	1/4W	1%	±100 ppm	9C12063A12R7F	Tape & Reel
13.0 OHM	1/4W	1%	±100 ppm	9C12063A13R0F	Tape & Reel
13.3 OHM	1/4W	1%	±100 ppm	9C12063A13R3F	Tape & Reel
13.7 OHM	1/4W	1%	±100 ppm	9C12063A13R7F	Tape & Reel
14.0 OHM	1/4W	1%	±100 ppm	9C12063A14R0F	Tape & Reel
14.3 OHM	1/4W	1%	±100 ppm	9C12063A14R3F	Tape & Reel
14.7 OHM	1/4W	1%	±100 ppm	9C12063A14R7F	Tape & Reel
15.0 OHM	1/4W	1%	±100 ppm	9C12063A15R0F	Tape & Reel
15.4 OHM	1/4W	1%	±100 ppm	9C12063A15R4F	Tape & Reel
15.8 OHM	1/4W	1%	±100 ppm	9C12063A15R8F	Tape & Reel
16.0 OHM	1/4W	1%	±100 ppm	9C12063A16R0F	Tape & Reel
16.2 OHM	1/4W	1%	±100 ppm	9C12063A16R2F	Tape & Reel
16.5 OHM	1/4W	1%	±100 ppm	9C12063A16R5F	Tape & Reel
16.9 OHM	1/4W	1%	±100 ppm	9C12063A16R9F	Tape & Reel
17.4 OHM	1/4W	1%	±100 ppm	9C12063A17R4F	Tape & Reel
17.8 OHM	1/4W	1%	±100 ppm	9C12063A17R8F	Tape & Reel
18.0 OHM	1/4W	1%	±100 ppm	9C12063A18R0F	Tape & Reel
18.2 OHM	1/4W	1%	±100 ppm	9C12063A18R2F	Tape & Reel
18.7 OHM	1/4W	1%	±100 ppm	9C12063A18R7F	Tape & Reel
19.1 OHM	1/4W	1%	±100 ppm	9C12063A19R1F	Tape & Reel
19.6 OHM	1/4W	1%	±100 ppm	9C12063A19R6F	Tape & Reel
20.0 OHM	1/4W	1%	±100 ppm	9C12063A20R0F	Tape & Reel
20.5 OHM	1/4W	1%	±100 ppm	9C12063A20R5F	Tape & Reel
21.0 OHM	1/4W	1%	±100 ppm	9C12063A21R0F	Tape & Reel
22.0 OHM	1/4W	1%	±100 ppm	9C12063A22R0F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
22.1 OHM	1/4W	1%	±100 ppm	9C12063A22R1F	Tape & Reel
22.6 OHM	1/4W	1%	±100 ppm	9C12063A22R6F	Tape & Reel
23.2 OHM	1/4W	1%	±100 ppm	9C12063A23R2F	Tape & Reel
23.7 OHM	1/4W	1%	±100 ppm	9C12063A23R7F	Tape & Reel
24.0 OHM	1/4W	1%	±100 ppm	9C12063A24R0F	Tape & Reel
24.3 OHM	1/4W	1%	±100 ppm	9C12063A24R3F	Tape & Reel
24.9 OHM	1/4W	1%	±100 ppm	9C12063A24R9F	Tape & Reel
25.5 OHM	1/4W	1%	±100 ppm	9C12063A25R5F	Tape & Reel
26.1 OHM	1/4W	1%	±100 ppm	9C12063A26R1F	Tape & Reel
26.7 OHM	1/4W	1%	±100 ppm	9C12063A26R7F	Tape & Reel
27.0 OHM	1/4W	1%	±100 ppm	9C12063A27R0F	Tape & Reel
27.4 OHM	1/4W	1%	±100 ppm	9C12063A27R4F	Tape & Reel
28.0 OHM	1/4W	1%	±100 ppm	9C12063A28R0F	Tape & Reel
28.7 OHM	1/4W	1%	±100 ppm	9C12063A28R7F	Tape & Reel
29.4 OHM	1/4W	1%	±100 ppm	9C12063A29R4F	Tape & Reel
30.0 OHM	1/4W	1%	±100 ppm	9C12063A30R0F	Tape & Reel
30.1 OHM	1/4W	1%	±100 ppm	9C12063A30R1F	Tape & Reel
30.9 OHM	1/4W	1%	±100 ppm	9C12063A30R9F	Tape & Reel
31.6 OHM	1/4W	1%	±100 ppm	9C12063A31R6F	Tape & Reel
32.4 OHM	1/4W	1%	±100 ppm	9C12063A32R4F	Tape & Reel
33.0 OHM	1/4W	1%	±100 ppm	9C12063A33R0F	Tape & Reel
33.2 OHM	1/4W	1%	±100 ppm	9C12063A33R2F	Tape & Reel
34.0 OHM	1/4W	1%	±100 ppm	9C12063A34R0F	Tape & Reel
34.8 OHM	1/4W	1%	±100 ppm	9C12063A34R8F	Tape & Reel
35.7 OHM	1/4W	1%	±100 ppm	9C12063A35R7F	Tape & Reel
36.0 OHM	1/4W	1%	±100 ppm	9C12063A36R0F	Tape & Reel
36.5 OHM	1/4W	1%	±100 ppm	9C12063A36R5F	Tape & Reel
37.4 OHM	1/4W	1%	±100 ppm	9C12063A37R4F	Tape & Reel
38.3 OHM	1/4W	1%	±100 ppm	9C12063A38R3F	Tape & Reel
39.0 OHM	1/4W	1%	±100 ppm	9C12063A39R0F	Tape & Reel
39.2 OHM	1/4W	1%	±100 ppm	9C12063A39R2F	Tape & Reel
40.2 OHM	1/4W	1%	±100 ppm	9C12063A40R2F	Tape & Reel
41.2 OHM	1/4W	1%	±100 ppm	9C12063A41R2F	Tape & Reel
42.2 OHM	1/4W	1%	±100 ppm	9C12063A42R2F	Tape & Reel
43.0 OHM	1/4W	1%	±100 ppm	9C12063A43R0F	Tape & Reel
43.2 OHM	1/4W	1%	±100 ppm	9C12063A43R2F	Tape & Reel
44.2 OHM	1/4W	1%	±100 ppm	9C12063A44R2F	Tape & Reel
45.3 OHM	1/4W	1%	±100 ppm	9C12063A45R3F	Tape & Reel
46.4 OHM	1/4W	1%	±100 ppm	9C12063A46R4F	Tape & Reel
47.0 OHM	1/4W	1%	±100 ppm	9C12063A47R0F	Tape & Reel
47.5 OHM	1/4W	1%	±100 ppm	9C12063A47R5F	Tape & Reel
48.7 OHM	1/4W	1%	±100 ppm	9C12063A48R7F	Tape & Reel
49.9 OHM	1/4W	1%	±100 ppm	9C12063A49R9F	Tape & Reel
51.0 OHM	1/4W	1%	±100 ppm	9C12063A51R0F	Tape & Reel
51.1 OHM	1/4W	1%	±100 ppm	9C12063A51R1F	Tape & Reel
52.3 OHM	1/4W	1%	±100 ppm	9C12063A52R3F	Tape & Reel
53.6 OHM	1/4W	1%	±100 ppm	9C12063A53R6F	Tape & Reel
54.9 OHM	1/4W	1%	±100 ppm	9C12063A54R9F	Tape & Reel
56.0 OHM	1/4W	1%	±100 ppm	9C12063A56R0F	Tape & Reel
56.2 OHM	1/4W	1%	±100 ppm	9C12063A56R2F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
57.6 OHM	1/4W	1%	±100 ppm	9C12063A57R6F	Tape & Reel
59.0 OHM	1/4W	1%	±100 ppm	9C12063A59R0F	Tape & Reel
60.4 OHM	1/4W	1%	±100 ppm	9C12063A60R4F	Tape & Reel
61.9 OHM	1/4W	1%	±100 ppm	9C12063A61R9F	Tape & Reel
62.0 OHM	1/4W	1%	±100 ppm	9C12063A62R0F	Tape & Reel
63.4 OHM	1/4W	1%	±100 ppm	9C12063A63R4F	Tape & Reel
64.9 OHM	1/4W	1%	±100 ppm	9C12063A64R9F	Tape & Reel
66.5 OHM	1/4W	1%	±100 ppm	9C12063A66R5F	Tape & Reel
68.0 OHM	1/4W	1%	±100 ppm	9C12063A68R0F	Tape & Reel
68.1 OHM	1/4W	1%	±100 ppm	9C12063A68R1F	Tape & Reel
69.8 OHM	1/4W	1%	±100 ppm	9C12063A69R8F	Tape & Reel
71.5 OHM	1/4W	1%	±100 ppm	9C12063A71R5F	Tape & Reel
73.2 OHM	1/4W	1%	±100 ppm	9C12063A73R2F	Tape & Reel
75.0 OHM	1/4W	1%	±100 ppm	9C12063A75R0F	Tape & Reel
76.8 OHM	1/4W	1%	±100 ppm	9C12063A76R8F	Tape & Reel
78.7 OHM	1/4W	1%	±100 ppm	9C12063A78R7F	Tape & Reel
80.6 OHM	1/4W	1%	±100 ppm	9C12063A80R6F	Tape & Reel
82.0 OHM	1/4W	1%	±100 ppm	9C12063A82R0F	Tape & Reel
82.5 OHM	1/4W	1%	±100 ppm	9C12063A82R5F	Tape & Reel
84.5 OHM	1/4W	1%	±100 ppm	9C12063A84R5F	Tape & Reel
86.6 OHM	1/4W	1%	±100 ppm	9C12063A86R6F	Tape & Reel
88.7 OHM	1/4W	1%	±100 ppm	9C12063A88R7F	Tape & Reel
90.9 OHM	1/4W	1%	±100 ppm	9C12063A90R9F	Tape & Reel
91.0 OHM	1/4W	1%	±100 ppm	9C12063A91R0F	Tape & Reel
93.1 OHM	1/4W	1%	±100 ppm	9C12063A93R1F	Tape & Reel
95.3 OHM	1/4W	1%	±100 ppm	9C12063A95R3F	Tape & Reel
97.6 OHM	1/4W	1%	±100 ppm	9C12063A97R6F	Tape & Reel
100 OHM	1/4W	1%	±100 ppm	9C12063A1000F	Tape & Reel
102 OHM	1/4W	1%	±100 ppm	9C12063A1020F	Tape & Reel
105 OHM	1/4W	1%	±100 ppm	9C12063A1050F	Tape & Reel
107 OHM	1/4W	1%	±100 ppm	9C12063A1070F	Tape & Reel
110 OHM	1/4W	1%	±100 ppm	9C12063A1100F	Tape & Reel
113 OHM	1/4W	1%	±100 ppm	9C12063A1130F	Tape & Reel
115 OHM	1/4W	1%	±100 ppm	9C12063A1150F	Tape & Reel
118 OHM	1/4W	1%	±100 ppm	9C12063A1180F	Tape & Reel
120 OHM	1/4W	1%	±100 ppm	9C12063A1200F	Tape & Reel
121 OHM	1/4W	1%	±100 ppm	9C12063A1210F	Tape & Reel
124 OHM	1/4W	1%	±100 ppm	9C12063A1240F	Tape & Reel
127 OHM	1/4W	1%	±100 ppm	9C12063A1270F	Tape & Reel
130 OHM	1/4W	1%	±100 ppm	9C12063A1300F	Tape & Reel
133 OHM	1/4W	1%	±100 ppm	9C12063A1330F	Tape & Reel
137 OHM	1/4W	1%	±100 ppm	9C12063A1370F	Tape & Reel
140 OHM	1/4W	1%	±100 ppm	9C12063A1400F	Tape & Reel
143 OHM	1/4W	1%	±100 ppm	9C12063A1430F	Tape & Reel
147 OHM	1/4W	1%	±100 ppm	9C12063A1470F	Tape & Reel
150 OHM	1/4W	1%	±100 ppm	9C12063A1500F	Tape & Reel
154 OHM	1/4W	1%	±100 ppm	9C12063A1540F	Tape & Reel
158 OHM	1/4W	1%	±100 ppm	9C12063A1580F	Tape & Reel
160 OHM	1/4W	1%	±100 ppm	9C12063A1600F	Tape & Reel
162 OHM	1/4W	1%	±100 ppm	9C12063A1620F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
165 OHM	1/4W	1%	±100 ppm	9C12063A1650F	Tape & Reel
169 OHM	1/4W	1%	±100 ppm	9C12063A1690F	Tape & Reel
174 OHM	1/4W	1%	±100 ppm	9C12063A1740F	Tape & Reel
178 OHM	1/4W	1%	±100 ppm	9C12063A1780F	Tape & Reel
180 OHM	1/4W	1%	±100 ppm	9C12063A1800F	Tape & Reel
182 OHM	1/4W	1%	±100 ppm	9C12063A1820F	Tape & Reel
187 OHM	1/4W	1%	±100 ppm	9C12063A1870F	Tape & Reel
191 OHM	1/4W	1%	±100 ppm	9C12063A1910F	Tape & Reel
196 OHM	1/4W	1%	±100 ppm	9C12063A1960F	Tape & Reel
200 OHM	1/4W	1%	±100 ppm	9C12063A2000F	Tape & Reel
205 OHM	1/4W	1%	±100 ppm	9C12063A2050F	Tape & Reel
210 OHM	1/4W	1%	±100 ppm	9C12063A2100F	Tape & Reel
215 OHM	1/4W	1%	±100 ppm	9C12063A2150F	Tape & Reel
220 OHM	1/4W	1%	±100 ppm	9C12063A2200F	Tape & Reel
221 OHM	1/4W	1%	±100 ppm	9C12063A2210F	Tape & Reel
226 OHM	1/4W	1%	±100 ppm	9C12063A2260F	Tape & Reel
232 OHM	1/4W	1%	±100 ppm	9C12063A2320F	Tape & Reel
237 OHM	1/4W	1%	±100 ppm	9C12063A2370F	Tape & Reel
240 OHM	1/4W	1%	±100 ppm	9C12063A2400F	Tape & Reel
243 OHM	1/4W	1%	±100 ppm	9C12063A2430F	Tape & Reel
249 OHM	1/4W	1%	±100 ppm	9C12063A2490F	Tape & Reel
255 OHM	1/4W	1%	±100 ppm	9C12063A2550F	Tape & Reel
261 OHM	1/4W	1%	±100 ppm	9C12063A2610F	Tape & Reel
267 OHM	1/4W	1%	±100 ppm	9C12063A2670F	Tape & Reel
270 OHM	1/4W	1%	±100 ppm	9C12063A2700F	Tape & Reel
274 OHM	1/4W	1%	±100 ppm	9C12063A2740F	Tape & Reel
280 OHM	1/4W	1%	±100 ppm	9C12063A2800F	Tape & Reel
287 OHM	1/4W	1%	±100 ppm	9C12063A2870F	Tape & Reel
294 OHM	1/4W	1%	±100 ppm	9C12063A2940F	Tape & Reel
300 OHM	1/4W	1%	±100 ppm	9C12063A3000F	Tape & Reel
301 OHM	1/4W	1%	±100 ppm	9C12063A3010F	Tape & Reel
309 OHM	1/4W	1%	±100 ppm	9C12063A3090F	Tape & Reel
316 OHM	1/4W	1%	±100 ppm	9C12063A3160F	Tape & Reel
324 OHM	1/4W	1%	±100 ppm	9C12063A3240F	Tape & Reel
330 OHM	1/4W	1%	±100 ppm	9C12063A3300F	Tape & Reel
332 OHM	1/4W	1%	±100 ppm	9C12063A3320F	Tape & Reel
340 OHM	1/4W	1%	±100 ppm	9C12063A3400F	Tape & Reel
348 OHM	1/4W	1%	±100 ppm	9C12063A3480F	Tape & Reel
357 OHM	1/4W	1%	±100 ppm	9C12063A3570F	Tape & Reel
360 OHM	1/4W	1%	±100 ppm	9C12063A3600F	Tape & Reel
365 OHM	1/4W	1%	±100 ppm	9C12063A3650F	Tape & Reel
374 OHM	1/4W	1%	±100 ppm	9C12063A3740F	Tape & Reel
382 OHM	1/4W	1%	±100 ppm	9C12063A3820F	Tape & Reel
383 OHM	1/4W	1%	±100 ppm	9C12063A3830F	Tape & Reel
390 OHM	1/4W	1%	±100 ppm	9C12063A3900F	Tape & Reel
402 OHM	1/4W	1%	±100 ppm	9C12063A4020F	Tape & Reel
412 OHM	1/4W	1%	±100 ppm	9C12063A4120F	Tape & Reel
422 OHM	1/4W	1%	±100 ppm	9C12063A4220F	Tape & Reel
430 OHM	1/4W	1%	±100 ppm	9C12063A4300F	Tape & Reel
432 OHM	1/4W	1%	±100 ppm	9C12063A4320F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
442 OHM	1/4W	1%	±100 ppm	9C12063A4420F	Tape & Reel
453 OHM	1/4W	1%	±100 ppm	9C12063A4530F	Tape & Reel
464 OHM	1/4W	1%	±100 ppm	9C12063A4640F	Tape & Reel
470 OHM	1/4W	1%	±100 ppm	9C12063A4700F	Tape & Reel
475 OHM	1/4W	1%	±100 ppm	9C12063A4750F	Tape & Reel
487 OHM	1/4W	1%	±100 ppm	9C12063A4870F	Tape & Reel
499 OHM	1/4W	1%	±100 ppm	9C12063A4990F	Tape & Reel
510 OHM	1/4W	1%	±100 ppm	9C12063A5100F	Tape & Reel
511 OHM	1/4W	1%	±100 ppm	9C12063A5110F	Tape & Reel
523 OHM	1/4W	1%	±100 ppm	9C12063A5230F	Tape & Reel
536 OHM	1/4W	1%	±100 ppm	9C12063A5360F	Tape & Reel
549 OHM	1/4W	1%	±100 ppm	9C12063A5490F	Tape & Reel
560 OHM	1/4W	1%	±100 ppm	9C12063A5600F	Tape & Reel
562 OHM	1/4W	1%	±100 ppm	9C12063A5620F	Tape & Reel
576 OHM	1/4W	1%	±100 ppm	9C12063A5760F	Tape & Reel
590 OHM	1/4W	1%	±100 ppm	9C12063A5900F	Tape & Reel
604 OHM	1/4W	1%	±100 ppm	9C12063A6040F	Tape & Reel
619 OHM	1/4W	1%	±100 ppm	9C12063A6190F	Tape & Reel
620 OHM	1/4W	1%	±100 ppm	9C12063A6200F	Tape & Reel
634 OHM	1/4W	1%	±100 ppm	9C12063A6340F	Tape & Reel
649 OHM	1/4W	1%	±100 ppm	9C12063A6490F	Tape & Reel
665 OHM	1/4W	1%	±100 ppm	9C12063A6650F	Tape & Reel
680 OHM	1/4W	1%	±100 ppm	9C12063A6800F	Tape & Reel
681 OHM	1/4W	1%	±100 ppm	9C12063A6810F	Tape & Reel
698 OHM	1/4W	1%	±100 ppm	9C12063A6980F	Tape & Reel
715 OHM	1/4W	1%	±100 ppm	9C12063A7150F	Tape & Reel
732 OHM	1/4W	1%	±100 ppm	9C12063A7320F	Tape & Reel
750 OHM	1/4W	1%	±100 ppm	9C12063A7500F	Tape & Reel
768 OHM	1/4W	1%	±100 ppm	9C12063A7680F	Tape & Reel
787 OHM	1/4W	1%	±100 ppm	9C12063A7870F	Tape & Reel
806 OHM	1/4W	1%	±100 ppm	9C12063A8060F	Tape & Reel
820 OHM	1/4W	1%	±100 ppm	9C12063A8200F	Tape & Reel
825 OHM	1/4W	1%	±100 ppm	9C12063A8250F	Tape & Reel
845 OHM	1/4W	1%	±100 ppm	9C12063A8450F	Tape & Reel
866 OHM	1/4W	1%	±100 ppm	9C12063A8660F	Tape & Reel
887 OHM	1/4W	1%	±100 ppm	9C12063A8870F	Tape & Reel
909 OHM	1/4W	1%	±100 ppm	9C12063A9090F	Tape & Reel
910 OHM	1/4W	1%	±100 ppm	9C12063A9100F	Tape & Reel
931 OHM	1/4W	1%	±100 ppm	9C12063A9310F	Tape & Reel
953 OHM	1/4W	1%	±100 ppm	9C12063A9530F	Tape & Reel
976 OHM	1/4W	1%	±100 ppm	9C12063A9760F	Tape & Reel
1K OHM	1/4W	1%	±100 ppm	9C12063A1001F	Tape & Reel
1.02K OHM	1/4W	1%	±100 ppm	9C12063A1021F	Tape & Reel
1.05K OHM	1/4W	1%	±100 ppm	9C12063A1051F	Tape & Reel
1.07K OHM	1/4W	1%	±100 ppm	9C12063A1071F	Tape & Reel
1.10K OHM	1/4W	1%	±100 ppm	9C12063A1101F	Tape & Reel
1.13K OHM	1/4W	1%	±100 ppm	9C12063A1131F	Tape & Reel
1.15K OHM	1/4W	1%	±100 ppm	9C12063A1151F	Tape & Reel
1.18K OHM	1/4W	1%	±100 ppm	9C12063A1181F	Tape & Reel
1.20K OHM	1/4W	1%	±100 ppm	9C12063A1201F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.21K OHM	1/4W	1%	±100 ppm	9C12063A1211F	Tape & Reel
1.24K OHM	1/4W	1%	±100 ppm	9C12063A1241F	Tape & Reel
1.27K OHM	1/4W	1%	±100 ppm	9C12063A1271F	Tape & Reel
1.30K OHM	1/4W	1%	±100 ppm	9C12063A1301F	Tape & Reel
1.33K OHM	1/4W	1%	±100 ppm	9C12063A1331F	Tape & Reel
1.37K OHM	1/4W	1%	±100 ppm	9C12063A1371F	Tape & Reel
1.40K OHM	1/4W	1%	±100 ppm	9C12063A1401F	Tape & Reel
1.43K OHM	1/4W	1%	±100 ppm	9C12063A1431F	Tape & Reel
1.47K OHM	1/4W	1%	±100 ppm	9C12063A1471F	Tape & Reel
1.50K OHM	1/4W	1%	±100 ppm	9C12063A1501F	Tape & Reel
1.54K OHM	1/4W	1%	±100 ppm	9C12063A1541F	Tape & Reel
1.58K OHM	1/4W	1%	±100 ppm	9C12063A1581F	Tape & Reel
1.60K OHM	1/4W	1%	±100 ppm	9C12063A1601F	Tape & Reel
1.62K OHM	1/4W	1%	±100 ppm	9C12063A1621F	Tape & Reel
1.65K OHM	1/4W	1%	±100 ppm	9C12063A1651F	Tape & Reel
1.69K OHM	1/4W	1%	±100 ppm	9C12063A1691F	Tape & Reel
1.74K OHM	1/4W	1%	±100 ppm	9C12063A1741F	Tape & Reel
1.78K OHM	1/4W	1%	±100 ppm	9C12063A1781F	Tape & Reel
1.80K OHM	1/4W	1%	±100 ppm	9C12063A1801F	Tape & Reel
1.82K OHM	1/4W	1%	±100 ppm	9C12063A1821F	Tape & Reel
1.87K OHM	1/4W	1%	±100 ppm	9C12063A1871F	Tape & Reel
1.91K OHM	1/4W	1%	±100 ppm	9C12063A1911F	Tape & Reel
1.96K OHM	1/4W	1%	±100 ppm	9C12063A1961F	Tape & Reel
2.00K OHM	1/4W	1%	±100 ppm	9C12063A2001F	Tape & Reel
2.05K OHM	1/4W	1%	±100 ppm	9C12063A2051F	Tape & Reel
2.10K OHM	1/4W	1%	±100 ppm	9C12063A2101F	Tape & Reel
2.15K OHM	1/4W	1%	±100 ppm	9C12063A2151F	Tape & Reel
2.20K OHM	1/4W	1%	±100 ppm	9C12063A2201F	Tape & Reel
2.21K OHM	1/4W	1%	±100 ppm	9C12063A2211F	Tape & Reel
2.26K OHM	1/4W	1%	±100 ppm	9C12063A2261F	Tape & Reel
2.32K OHM	1/4W	1%	±100 ppm	9C12063A2321F	Tape & Reel
2.37K OHM	1/4W	1%	±100 ppm	9C12063A2371F	Tape & Reel
2.40K OHM	1/4W	1%	±100 ppm	9C12063A2401F	Tape & Reel
2.43K OHM	1/4W	1%	±100 ppm	9C12063A2431F	Tape & Reel
2.49K OHM	1/4W	1%	±100 ppm	9C12063A2491F	Tape & Reel
2.55K OHM	1/4W	1%	±100 ppm	9C12063A2551F	Tape & Reel
2.61K OHM	1/4W	1%	±100 ppm	9C12063A2611F	Tape & Reel
2.67K OHM	1/4W	1%	±100 ppm	9C12063A2671F	Tape & Reel
2.70K OHM	1/4W	1%	±100 ppm	9C12063A2701F	Tape & Reel
2.74K OHM	1/4W	1%	±100 ppm	9C12063A2741F	Tape & Reel
2.87K OHM	1/4W	1%	±100 ppm	9C12063A2871F	Tape & Reel
2.8K OHM	1/4W	1%	±100 ppm	9C12063A2801F	Tape & Reel
2.94K OHM	1/4W	1%	±100 ppm	9C12063A2941F	Tape & Reel
3.00K OHM	1/4W	1%	±100 ppm	9C12063A3001F	Tape & Reel
3.01K OHM	1/4W	1%	±100 ppm	9C12063A3011F	Tape & Reel
3.09K OHM	1/4W	1%	±100 ppm	9C12063A3091F	Tape & Reel
3.16K OHM	1/4W	1%	±100 ppm	9C12063A3161F	Tape & Reel
3.24K OHM	1/4W	1%	±100 ppm	9C12063A3241F	Tape & Reel
3.30K OHM	1/4W	1%	±100 ppm	9C12063A3301F	Tape & Reel
3.32K OHM	1/4W	1%	±100 ppm	9C12063A3321F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
3.40K OHM	1/4W	1%	±100 ppm	9C12063A3401F	Tape & Reel
3.48K OHM	1/4W	1%	±100 ppm	9C12063A3481F	Tape & Reel
3.57K OHM	1/4W	1%	±100 ppm	9C12063A3571F	Tape & Reel
3.60K OHM	1/4W	1%	±100 ppm	9C12063A3601F	Tape & Reel
3.65K OHM	1/4W	1%	±100 ppm	9C12063A3651F	Tape & Reel
3.74K OHM	1/4W	1%	±100 ppm	9C12063A3741F	Tape & Reel
3.83K OHM	1/4W	1%	±100 ppm	9C12063A3831F	Tape & Reel
3.90K OHM	1/4W	1%	±100 ppm	9C12063A3901F	Tape & Reel
3.92K OHM	1/4W	1%	±100 ppm	9C12063A3921F	Tape & Reel
4.02K OHM	1/4W	1%	±100 ppm	9C12063A4021F	Tape & Reel
4.12K OHM	1/4W	1%	±100 ppm	9C12063A4121F	Tape & Reel
4.22K OHM	1/4W	1%	±100 ppm	9C12063A4221F	Tape & Reel
4.30K OHM	1/4W	1%	±100 ppm	9C12063A4301F	Tape & Reel
4.32K OHM	1/4W	1%	±100 ppm	9C12063A4321F	Tape & Reel
4.42K OHM	1/4W	1%	±100 ppm	9C12063A4421F	Tape & Reel
4.53K OHM	1/4W	1%	±100 ppm	9C12063A4531F	Tape & Reel
4.64K OHM	1/4W	1%	±100 ppm	9C12063A4641F	Tape & Reel
4.70K OHM	1/4W	1%	±100 ppm	9C12063A4701F	Tape & Reel
4.75K OHM	1/4W	1%	±100 ppm	9C12063A4751F	Tape & Reel
4.87K OHM	1/4W	1%	±100 ppm	9C12063A4871F	Tape & Reel
4.99K OHM	1/4W	1%	±100 ppm	9C12063A4991F	Tape & Reel
5.10K OHM	1/4W	1%	±100 ppm	9C12063A5101F	Tape & Reel
5.11K OHM	1/4W	1%	±100 ppm	9C12063A5111F	Tape & Reel
5.23K OHM	1/4W	1%	±100 ppm	9C12063A5231F	Tape & Reel
5.36K OHM	1/4W	1%	±100 ppm	9C12063A5361F	Tape & Reel
5.49K OHM	1/4W	1%	±100 ppm	9C12063A5491F	Tape & Reel
5.60K OHM	1/4W	1%	±100 ppm	9C12063A5601F	Tape & Reel
5.62K OHM	1/4W	1%	±100 ppm	9C12063A5621F	Tape & Reel
5.76K OHM	1/4W	1%	±100 ppm	9C12063A5761F	Tape & Reel
5.90K OHM	1/4W	1%	±100 ppm	9C12063A5901F	Tape & Reel
6.04K OHM	1/4W	1%	±100 ppm	9C12063A6041F	Tape & Reel
6.19K OHM	1/4W	1%	±100 ppm	9C12063A6191F	Tape & Reel
6.20K OHM	1/4W	1%	±100 ppm	9C12063A6201F	Tape & Reel
6.34K OHM	1/4W	1%	±100 ppm	9C12063A6341F	Tape & Reel
6.49K OHM	1/4W	1%	±100 ppm	9C12063A6491F	Tape & Reel
6.65K OHM	1/4W	1%	±100 ppm	9C12063A6651F	Tape & Reel
6.80K OHM	1/4W	1%	±100 ppm	9C12063A6801F	Tape & Reel
6.81K OHM	1/4W	1%	±100 ppm	9C12063A6811F	Tape & Reel
6.98K OHM	1/4W	1%	±100 ppm	9C12063A6981F	Tape & Reel
7.15K OHM	1/4W	1%	±100 ppm	9C12063A7151F	Tape & Reel
7.32K OHM	1/4W	1%	±100 ppm	9C12063A7321F	Tape & Reel
7.50K OHM	1/4W	1%	±100 ppm	9C12063A7501F	Tape & Reel
7.68K OHM	1/4W	1%	±100 ppm	9C12063A7681F	Tape & Reel
7.87K OHM	1/4W	1%	±100 ppm	9C12063A7871F	Tape & Reel
8.06K OHM	1/4W	1%	±100 ppm	9C12063A8061F	Tape & Reel
8.20K OHM	1/4W	1%	±100 ppm	9C12063A8201F	Tape & Reel
8.25K OHM	1/4W	1%	±100 ppm	9C12063A8251F	Tape & Reel
8.45K OHM	1/4W	1%	±100 ppm	9C12063A8451F	Tape & Reel
8.66K OHM	1/4W	1%	±100 ppm	9C12063A8661F	Tape & Reel
8.87K OHM	1/4W	1%	±100 ppm	9C12063A8871F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
9.09K OHM	1/4W	1%	±100 ppm	9C12063A9091F	Tape & Reel
9.10K OHM	1/4W	1%	±100 ppm	9C12063A9101F	Tape & Reel
9.31K OHM	1/4W	1%	±100 ppm	9C12063A9311F	Tape & Reel
9.53K OHM	1/4W	1%	±100 ppm	9C12063A9531F	Tape & Reel
9.76K OHM	1/4W	1%	±100 ppm	9C12063A9761F	Tape & Reel
10K OHM	1/4W	1%	±100 ppm	9C12063A1002F	Tape & Reel
10.2K OHM	1/4W	1%	±100 ppm	9C12063A1022F	Tape & Reel
10.5K OHM	1/4W	1%	±100 ppm	9C12063A1052F	Tape & Reel
10.7K OHM	1/4W	1%	±100 ppm	9C12063A1072F	Tape & Reel
11K OHM	1/4W	1%	±100 ppm	9C12063A1102F	Tape & Reel
11.3K OHM	1/4W	1%	±100 ppm	9C12063A1132F	Tape & Reel
11.5K OHM	1/4W	1%	±100 ppm	9C12063A1152F	Tape & Reel
11.8K OHM	1/4W	1%	±100 ppm	9C12063A1182F	Tape & Reel
12K OHM	1/4W	1%	±100 ppm	9C12063A1202F	Tape & Reel
12.1K OHM	1/4W	1%	±100 ppm	9C12063A1212F	Tape & Reel
12.4K OHM	1/4W	1%	±100 ppm	9C12063A1242F	Tape & Reel
12.7K OHM	1/4W	1%	±100 ppm	9C12063A1272F	Tape & Reel
13K OHM	1/4W	1%	±100 ppm	9C12063A1302F	Tape & Reel
13.3K OHM	1/4W	1%	±100 ppm	9C12063A1332F	Tape & Reel
13.7K OHM	1/4W	1%	±100 ppm	9C12063A1372F	Tape & Reel
14K OHM	1/4W	1%	±100 ppm	9C12063A1402F	Tape & Reel
14.3K OHM	1/4W	1%	±100 ppm	9C12063A1432F	Tape & Reel
14.7K OHM	1/4W	1%	±100 ppm	9C12063A1472F	Tape & Reel
15K OHM	1/4W	1%	±100 ppm	9C12063A1502F	Tape & Reel
15.4K OHM	1/4W	1%	±100 ppm	9C12063A1542F	Tape & Reel
15.8K OHM	1/4W	1%	±100 ppm	9C12063A1582F	Tape & Reel
16K OHM	1/4W	1%	±100 ppm	9C12063A1602F	Tape & Reel
16.2K OHM	1/4W	1%	±100 ppm	9C12063A1622F	Tape & Reel
16.5K OHM	1/4W	1%	±100 ppm	9C12063A1652F	Tape & Reel
16.9K OHM	1/4W	1%	±100 ppm	9C12063A1692F	Tape & Reel
17.4K OHM	1/4W	1%	±100 ppm	9C12063A1742F	Tape & Reel
17.8K OHM	1/4W	1%	±100 ppm	9C12063A1782F	Tape & Reel
18K OHM	1/4W	1%	±100 ppm	9C12063A1802F	Tape & Reel
18.2K OHM	1/4W	1%	±100 ppm	9C12063A1822F	Tape & Reel
18.7K OHM	1/4W	1%	±100 ppm	9C12063A1872F	Tape & Reel
19.1K OHM	1/4W	1%	±100 ppm	9C12063A1912F	Tape & Reel
19.6K OHM	1/4W	1%	±100 ppm	9C12063A1962F	Tape & Reel
20K OHM	1/4W	1%	±100 ppm	9C12063A2002F	Tape & Reel
20.5K OHM	1/4W	1%	±100 ppm	9C12063A2052F	Tape & Reel
21K OHM	1/4W	1%	±100 ppm	9C12063A2102F	Tape & Reel
21.5K OHM	1/4W	1%	±100 ppm	9C12063A2152F	Tape & Reel
22K OHM	1/4W	1%	±100 ppm	9C12063A2202F	Tape & Reel
22.1K OHM	1/4W	1%	±100 ppm	9C12063A2212F	Tape & Reel
22.6K OHM	1/4W	1%	±100 ppm	9C12063A2262F	Tape & Reel
23.2K OHM	1/4W	1%	±100 ppm	9C12063A2322F	Tape & Reel
23.7K OHM	1/4W	1%	±100 ppm	9C12063A2372F	Tape & Reel
24K OHM	1/4W	1%	±100 ppm	9C12063A2402F	Tape & Reel
24.3K OHM	1/4W	1%	±100 ppm	9C12063A2432F	Tape & Reel
24.9K OHM	1/4W	1%	±100 ppm	9C12063A2492F	Tape & Reel
25.5K OHM	1/4W	1%	±100 ppm	9C12063A2552F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
26.1K OHM	1/4W	1%	±100 ppm	9C12063A2612F	Tape & Reel
26.7K OHM	1/4W	1%	±100 ppm	9C12063A2672F	Tape & Reel
27K OHM	1/4W	1%	±100 ppm	9C12063A2702F	Tape & Reel
27.4K OHM	1/4W	1%	±100 ppm	9C12063A2742F	Tape & Reel
28K OHM	1/4W	1%	±100 ppm	9C12063A2802F	Tape & Reel
28.7K OHM	1/4W	1%	±100 ppm	9C12063A2872F	Tape & Reel
29.4K OHM	1/4W	1%	±100 ppm	9C12063A2942F	Tape & Reel
30K OHM	1/4W	1%	±100 ppm	9C12063A3002F	Tape & Reel
30.1K OHM	1/4W	1%	±100 ppm	9C12063A3012F	Tape & Reel
30.9K OHM	1/4W	1%	±100 ppm	9C12063A3092F	Tape & Reel
31.6K OHM	1/4W	1%	±100 ppm	9C12063A3162F	Tape & Reel
32.4K OHM	1/4W	1%	±100 ppm	9C12063A3242F	Tape & Reel
33K OHM	1/4W	1%	±100 ppm	9C12063A3302F	Tape & Reel
33.2K OHM	1/4W	1%	±100 ppm	9C12063A3322F	Tape & Reel
34K OHM	1/4W	1%	±100 ppm	9C12063A3402F	Tape & Reel
34.8K OHM	1/4W	1%	±100 ppm	9C12063A3482F	Tape & Reel
35.7K OHM	1/4W	1%	±100 ppm	9C12063A3572F	Tape & Reel
36K OHM	1/4W	1%	±100 ppm	9C12063A3602F	Tape & Reel
36.5K OHM	1/4W	1%	±100 ppm	9C12063A3652F	Tape & Reel
37.4K OHM	1/4W	1%	±100 ppm	9C12063A3742F	Tape & Reel
38.3K OHM	1/4W	1%	±100 ppm	9C12063A3832F	Tape & Reel
39K OHM	1/4W	1%	±100 ppm	9C12063A3902F	Tape & Reel
39.2K OHM	1/4W	1%	±100 ppm	9C12063A3922F	Tape & Reel
40.2K OHM	1/4W	1%	±100 ppm	9C12063A4022F	Tape & Reel
41.2K OHM	1/4W	1%	±100 ppm	9C12063A4122F	Tape & Reel
42.2K OHM	1/4W	1%	±100 ppm	9C12063A4222F	Tape & Reel
43K OHM	1/4W	1%	±100 ppm	9C12063A4302F	Tape & Reel
43.2K OHM	1/4W	1%	±100 ppm	9C12063A4322F	Tape & Reel
44.2K OHM	1/4W	1%	±100 ppm	9C12063A4422F	Tape & Reel
45.3K OHM	1/4W	1%	±100 ppm	9C12063A4532F	Tape & Reel
46.4K OHM	1/4W	1%	±100 ppm	9C12063A4642F	Tape & Reel
47K OHM	1/4W	1%	±100 ppm	9C12063A4702F	Tape & Reel
47.5K OHM	1/4W	1%	±100 ppm	9C12063A4752F	Tape & Reel
48.7K OHM	1/4W	1%	±100 ppm	9C12063A4872F	Tape & Reel
49.9K OHM	1/4W	1%	±100 ppm	9C12063A4992F	Tape & Reel
51K OHM	1/4W	1%	±100 ppm	9C12063A5102F	Tape & Reel
51.1K OHM	1/4W	1%	±100 ppm	9C12063A5112F	Tape & Reel
52.3K OHM	1/4W	1%	±100 ppm	9C12063A5232F	Tape & Reel
53.6K OHM	1/4W	1%	±100 ppm	9C12063A5362F	Tape & Reel
54.9K OHM	1/4W	1%	±100 ppm	9C12063A5492F	Tape & Reel
56K OHM	1/4W	1%	±100 ppm	9C12063A5602F	Tape & Reel
56.2K OHM	1/4W	1%	±100 ppm	9C12063A5622F	Tape & Reel
57.6K OHM	1/4W	1%	±100 ppm	9C12063A5762F	Tape & Reel
59K OHM	1/4W	1%	±100 ppm	9C12063A5902F	Tape & Reel
60.4K OHM	1/4W	1%	±100 ppm	9C12063A6042F	Tape & Reel
61.9K OHM	1/4W	1%	±100 ppm	9C12063A6192F	Tape & Reel
62K OHM	1/4W	1%	±100 ppm	9C12063A6202F	Tape & Reel
63.4K OHM	1/4W	1%	±100 ppm	9C12063A6342F	Tape & Reel
66.5K OHM	1/4W	1%	±100 ppm	9C12063A6652F	Tape & Reel
68K OHM	1/4W	1%	±100 ppm	9C12063A6802F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
68.1K OHM	1/4W	1%	±100 ppm	9C12063A6812F	Tape & Reel
69.8K OHM	1/4W	1%	±100 ppm	9C12063A6982F	Tape & Reel
71.5K OHM	1/4W	1%	±100 ppm	9C12063A7152F	Tape & Reel
73.2K OHM	1/4W	1%	±100 ppm	9C12063A7322F	Tape & Reel
75K OHM	1/4W	1%	±100 ppm	9C12063A7502F	Tape & Reel
76.8K OHM	1/4W	1%	±100 ppm	9C12063A7682F	Tape & Reel
78.7K OHM	1/4W	1%	±100 ppm	9C12063A7872F	Tape & Reel
80.6K OHM	1/4W	1%	±100 ppm	9C12063A8062F	Tape & Reel
82K OHM	1/4W	1%	±100 ppm	9C12063A8202F	Tape & Reel
82.5K OHM	1/4W	1%	±100 ppm	9C12063A8252F	Tape & Reel
84.5K OHM	1/4W	1%	±100 ppm	9C12063A8452F	Tape & Reel
86.6K OHM	1/4W	1%	±100 ppm	9C12063A8662F	Tape & Reel
88.7K OHM	1/4W	1%	±100 ppm	9C12063A8872F	Tape & Reel
90.9K OHM	1/4W	1%	±100 ppm	9C12063A9092F	Tape & Reel
91K OHM	1/4W	1%	±100 ppm	9C12063A9102F	Tape & Reel
93.1K OHM	1/4W	1%	±100 ppm	9C12063A9312F	Tape & Reel
95.3K OHM	1/4W	1%	±100 ppm	9C12063A9532F	Tape & Reel
97.6K OHM	1/4W	1%	±100 ppm	9C12063A9762F	Tape & Reel
100K OHM	1/4W	1%	±100 ppm	9C12063A1003F	Tape & Reel
102K OHM	1/4W	1%	±100 ppm	9C12063A1023F	Tape & Reel
105K OHM	1/4W	1%	±100 ppm	9C12063A1053F	Tape & Reel
107K OHM	1/4W	1%	±100 ppm	9C12063A1073F	Tape & Reel
110K OHM	1/4W	1%	±100 ppm	9C12063A1103F	Tape & Reel
113K OHM	1/4W	1%	±100 ppm	9C12063A1133F	Tape & Reel
115K OHM	1/4W	1%	±100 ppm	9C12063A1153F	Tape & Reel
118K OHM	1/4W	1%	±100 ppm	9C12063A1183F	Tape & Reel
120K OHM	1/4W	1%	±100 ppm	9C12063A1203F	Tape & Reel
121K OHM	1/4W	1%	±100 ppm	9C12063A1213F	Tape & Reel
124K OHM	1/4W	1%	±100 ppm	9C12063A1243F	Tape & Reel
127K OHM	1/4W	1%	±100 ppm	9C12063A1273F	Tape & Reel
130K OHM	1/4W	1%	±100 ppm	9C12063A1303F	Tape & Reel
133K OHM	1/4W	1%	±100 ppm	9C12063A1333F	Tape & Reel
137K OHM	1/4W	1%	±100 ppm	9C12063A1373F	Tape & Reel
140K OHM	1/4W	1%	±100 ppm	9C12063A1403F	Tape & Reel
143K OHM	1/4W	1%	±100 ppm	9C12063A1433F	Tape & Reel
147K OHM	1/4W	1%	±100 ppm	9C12063A1473F	Tape & Reel
150K OHM	1/4W	1%	±100 ppm	9C12063A1503F	Tape & Reel
154K OHM	1/4W	1%	±100 ppm	9C12063A1543F	Tape & Reel
158K OHM	1/4W	1%	±100 ppm	9C12063A1583F	Tape & Reel
160K OHM	1/4W	1%	±100 ppm	9C12063A1603F	Tape & Reel
162K OHM	1/4W	1%	±100 ppm	9C12063A1623F	Tape & Reel
165K OHM	1/4W	1%	±100 ppm	9C12063A1653F	Tape & Reel
169K OHM	1/4W	1%	±100 ppm	9C12063A1693F	Tape & Reel
174K OHM	1/4W	1%	±100 ppm	9C12063A1743F	Tape & Reel
178K OHM	1/4W	1%	±100 ppm	9C12063A1783F	Tape & Reel
180K OHM	1/4W	1%	±100 ppm	9C12063A1803F	Tape & Reel
182K OHM	1/4W	1%	±100 ppm	9C12063A1823F	Tape & Reel
187K OHM	1/4W	1%	±100 ppm	9C12063A1873F	Tape & Reel
191K OHM	1/4W	1%	±100 ppm	9C12063A1913F	Tape & Reel
196K OHM	1/4W	1%	±100 ppm	9C12063A1963F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
200K OHM	1/4W	1%	±100 ppm	9C12063A2003F	Tape & Reel
205K OHM	1/4W	1%	±100 ppm	9C12063A2053F	Tape & Reel
210K OHM	1/4W	1%	±100 ppm	9C12063A2103F	Tape & Reel
215K OHM	1/4W	1%	±100 ppm	9C12063A2153F	Tape & Reel
220K OHM	1/4W	1%	±100 ppm	9C12063A2203F	Tape & Reel
221K OHM	1/4W	1%	±100 ppm	9C12063A2213F	Tape & Reel
226K OHM	1/4W	1%	±100 ppm	9C12063A2263F	Tape & Reel
232K OHM	1/4W	1%	±100 ppm	9C12063A2323F	Tape & Reel
237K OHM	1/4W	1%	±100 ppm	9C12063A2373F	Tape & Reel
240K OHM	1/4W	1%	±100 ppm	9C12063A2403F	Tape & Reel
243K OHM	1/4W	1%	±100 ppm	9C12063A2433F	Tape & Reel
249K OHM	1/4W	1%	±100 ppm	9C12063A2493F	Tape & Reel
255K OHM	1/4W	1%	±100 ppm	9C12063A2553F	Tape & Reel
261K OHM	1/4W	1%	±100 ppm	9C12063A2613F	Tape & Reel
267K OHM	1/4W	1%	±100 ppm	9C12063A2673F	Tape & Reel
270K OHM	1/4W	1%	±100 ppm	9C12063A2703F	Tape & Reel
274K OHM	1/4W	1%	±100 ppm	9C12063A2743F	Tape & Reel
280K OHM	1/4W	1%	±100 ppm	9C12063A2803F	Tape & Reel
287K OHM	1/4W	1%	±100 ppm	9C12063A2873F	Tape & Reel
294K OHM	1/4W	1%	±100 ppm	9C12063A2943F	Tape & Reel
300K OHM	1/4W	1%	±100 ppm	9C12063A3003F	Tape & Reel
301K OHM	1/4W	1%	±100 ppm	9C12063A3013F	Tape & Reel
309K OHM	1/4W	1%	±100 ppm	9C12063A3093F	Tape & Reel
316K OHM	1/4W	1%	±100 ppm	9C12063A3163F	Tape & Reel
324K OHM	1/4W	1%	±100 ppm	9C12063A3243F	Tape & Reel
330K OHM	1/4W	1%	±100 ppm	9C12063A3303F	Tape & Reel
332K OHM	1/4W	1%	±100 ppm	9C12063A3323F	Tape & Reel
340K OHM	1/4W	1%	±100 ppm	9C12063A3403F	Tape & Reel
348K OHM	1/4W	1%	±100 ppm	9C12063A3483F	Tape & Reel
357K OHM	1/4W	1%	±100 ppm	9C12063A3573F	Tape & Reel
360K OHM	1/4W	1%	±100 ppm	9C12063A3603F	Tape & Reel
365K OHM	1/4W	1%	±100 ppm	9C12063A3653F	Tape & Reel
374K OHM	1/4W	1%	±100 ppm	9C12063A3743F	Tape & Reel
383K OHM	1/4W	1%	±100 ppm	9C12063A3833F	Tape & Reel
390K OHM	1/4W	1%	±100 ppm	9C12063A3903F	Tape & Reel
392K OHM	1/4W	1%	±100 ppm	9C12063A3923F	Tape & Reel
402K OHM	1/4W	1%	±100 ppm	9C12063A4023F	Tape & Reel
412K OHM	1/4W	1%	±100 ppm	9C12063A4123F	Tape & Reel
422K OHM	1/4W	1%	±100 ppm	9C12063A4223F	Tape & Reel
430K OHM	1/4W	1%	±100 ppm	9C12063A4303F	Tape & Reel
432K OHM	1/4W	1%	±100 ppm	9C12063A4323F	Tape & Reel
442K OHM	1/4W	1%	±100 ppm	9C12063A4423F	Tape & Reel
453K OHM	1/4W	1%	±100 ppm	9C12063A4533F	Tape & Reel
464K OHM	1/4W	1%	±100 ppm	9C12063A4643F	Tape & Reel
470K OHM	1/4W	1%	±100 ppm	9C12063A4703F	Tape & Reel
475K OHM	1/4W	1%	±100 ppm	9C12063A4753F	Tape & Reel
487K OHM	1/4W	1%	±100 ppm	9C12063A4873F	Tape & Reel
499K OHM	1/4W	1%	±100 ppm	9C12063A4993F	Tape & Reel
510K OHM	1/4W	1%	±100 ppm	9C12063A5103F	Tape & Reel
511K OHM	1/4W	1%	±100 ppm	9C12063A5113F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
523K OHM	1/4W	1%	±100 ppm	9C12063A5233F	Tape & Reel
536K OHM	1/4W	1%	±100 ppm	9C12063A5363F	Tape & Reel
549K OHM	1/4W	1%	±100 ppm	9C12063A5493F	Tape & Reel
560K OHM	1/4W	1%	±100 ppm	9C12063A5603F	Tape & Reel
562K OHM	1/4W	1%	±100 ppm	9C12063A5623F	Tape & Reel
576K OHM	1/4W	1%	±100 ppm	9C12063A5763F	Tape & Reel
590K OHM	1/4W	1%	±100 ppm	9C12063A5903F	Tape & Reel
604K OHM	1/4W	1%	±100 ppm	9C12063A6043F	Tape & Reel
619K OHM	1/4W	1%	±100 ppm	9C12063A6193F	Tape & Reel
620K OHM	1/4W	1%	±100 ppm	9C12063A6203F	Tape & Reel
634K OHM	1/4W	1%	±100 ppm	9C12063A6343F	Tape & Reel
649K OHM	1/4W	1%	±100 ppm	9C12063A6493F	Tape & Reel
665K OHM	1/4W	1%	±100 ppm	9C12063A6653F	Tape & Reel
680K OHM	1/4W	1%	±100 ppm	9C12063A6803F	Tape & Reel
681K OHM	1/4W	1%	±100 ppm	9C12063A6813F	Tape & Reel
698K OHM	1/4W	1%	±100 ppm	9C12063A6983F	Tape & Reel
715K OHM	1/4W	1%	±100 ppm	9C12063A7153F	Tape & Reel
732K OHM	1/4W	1%	±100 ppm	9C12063A7323F	Tape & Reel
750K OHM	1/4W	1%	±100 ppm	9C12063A7503F	Tape & Reel
768K OHM	1/4W	1%	±100 ppm	9C12063A7683F	Tape & Reel
787K OHM	1/4W	1%	±100 ppm	9C12063A7873F	Tape & Reel
806K OHM	1/4W	1%	±100 ppm	9C12063A8063F	Tape & Reel
820K OHM	1/4W	1%	±100 ppm	9C12063A8203F	Tape & Reel
825K OHM	1/4W	1%	±100 ppm	9C12063A8253F	Tape & Reel
845K OHM	1/4W	1%	±100 ppm	9C12063A8453F	Tape & Reel
866K OHM	1/4W	1%	±100 ppm	9C12063A8663F	Tape & Reel
887K OHM	1/4W	1%	±100 ppm	9C12063A8873F	Tape & Reel
909K OHM	1/4W	1%	±100 ppm	9C12063A9093F	Tape & Reel
910K OHM	1/4W	1%	±100 ppm	9C12063A9103F	Tape & Reel
931K OHM	1/4W	1%	±100 ppm	9C12063A9313F	Tape & Reel
953K OHM	1/4W	1%	±100 ppm	9C12063A9533F	Tape & Reel
976K OHM	1/4W	1%	±100 ppm	9C12063A9763F	Tape & Reel
1.00M OHM	1/4W	1%	±100 ppm	9C12063A1004F	Tape & Reel
1.02M OHM	1/4W	1%	±200 ppm	9C12063A1024F	Tape & Reel
1.05M OHM	1/4W	1%	±200 ppm	9C12063A1054F	Tape & Reel
1.07M OHM	1/4W	1%	±200 ppm	9C12063A1074F	Tape & Reel
1.10M OHM	1/4W	1%	±200 ppm	9C12063A1104F	Tape & Reel
1.13M OHM	1/4W	1%	±200 ppm	9C12063A1134F	Tape & Reel
1.15M OHM	1/4W	1%	±200 ppm	9C12063A1154F	Tape & Reel
1.18M OHM	1/4W	1%	±200 ppm	9C12063A1184F	Tape & Reel
1.20M OHM	1/4W	1%	±200 ppm	9C12063A1204F	Tape & Reel
1.21M OHM	1/4W	1%	±200 ppm	9C12063A1214F	Tape & Reel
1.24M OHM	1/4W	1%	±200 ppm	9C12063A1244F	Tape & Reel
1.27M OHM	1/4W	1%	±200 ppm	9C12063A1274F	Tape & Reel
1.30M OHM	1/4W	1%	±200 ppm	9C12063A1304F	Tape & Reel
1.33M OHM	1/4W	1%	±200 ppm	9C12063A1334F	Tape & Reel
1.37M OHM	1/4W	1%	±200 ppm	9C12063A1374F	Tape & Reel
1.40M OHM	1/4W	1%	±200 ppm	9C12063A1404F	Tape & Reel
1.43M OHM	1/4W	1%	±200 ppm	9C12063A1434F	Tape & Reel
1.47M OHM	1/4W	1%	±200 ppm	9C12063A1474F	Tape & Reel

Surface Mount Resistor Chip

Series 9C ... F Size 1206

PHILIPS

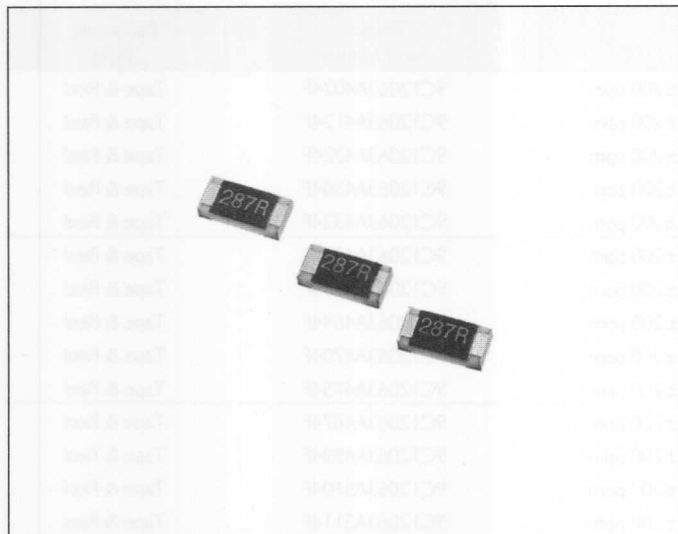
Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.50M OHM	1/4W	1%	±200 ppm	9C12063A1504F	Tape & Reel
1.54M OHM	1/4W	1%	±200 ppm	9C12063A1544F	Tape & Reel
1.58M OHM	1/4W	1%	±200 ppm	9C12063A1584F	Tape & Reel
1.60M OHM	1/4W	1%	±200 ppm	9C12063A1604F	Tape & Reel
1.62M OHM	1/4W	1%	±200 ppm	9C12063A1624F	Tape & Reel
1.65M OHM	1/4W	1%	±200 ppm	9C12063A1654F	Tape & Reel
1.69M OHM	1/4W	1%	±200 ppm	9C12063A1694F	Tape & Reel
1.74M OHM	1/4W	1%	±200 ppm	9C12063A1744F	Tape & Reel
1.78M OHM	1/4W	1%	±200 ppm	9C12063A1784F	Tape & Reel
1.80M OHM	1/4W	1%	±200 ppm	9C12063A1804F	Tape & Reel
1.82M OHM	1/4W	1%	±200 ppm	9C12063A1824F	Tape & Reel
1.87M OHM	1/4W	1%	±200 ppm	9C12063A1874F	Tape & Reel
1.91M OHM	1/4W	1%	±200 ppm	9C12063A1914F	Tape & Reel
1.96M OHM	1/4W	1%	±200 ppm	9C12063A1964F	Tape & Reel
2.00M OHM	1/4W	1%	±200 ppm	9C12063A2004F	Tape & Reel
2.05M OHM	1/4W	1%	±200 ppm	9C12063A2054F	Tape & Reel
2.10M OHM	1/4W	1%	±200 ppm	9C12063A2104F	Tape & Reel
2.15M OHM	1/4W	1%	±200 ppm	9C12063A2154F	Tape & Reel
2.20M OHM	1/4W	1%	±200 ppm	9C12063A2204F	Tape & Reel
2.21M OHM	1/4W	1%	±200 ppm	9C12063A2214F	Tape & Reel
2.26M OHM	1/4W	1%	±200 ppm	9C12063A2264F	Tape & Reel
2.32M OHM	1/4W	1%	±200 ppm	9C12063A2324F	Tape & Reel
2.37M OHM	1/4W	1%	±200 ppm	9C12063A2374F	Tape & Reel
2.40M OHM	1/4W	1%	±200 ppm	9C12063A2404F	Tape & Reel
2.43M OHM	1/4W	1%	±200 ppm	9C12063A2434F	Tape & Reel
2.49M OHM	1/4W	1%	±200 ppm	9C12063A2494F	Tape & Reel
2.55M OHM	1/4W	1%	±200 ppm	9C12063A2554F	Tape & Reel
2.61M OHM	1/4W	1%	±200 ppm	9C12063A2614F	Tape & Reel
2.67M OHM	1/4W	1%	±200 ppm	9C12063A2674F	Tape & Reel
2.70M OHM	1/4W	1%	±200 ppm	9C12063A2704F	Tape & Reel
2.74M OHM	1/4W	1%	±200 ppm	9C12063A2744F	Tape & Reel
2.80M OHM	1/4W	1%	±200 ppm	9C12063A2804F	Tape & Reel
2.87M OHM	1/4W	1%	±200 ppm	9C12063A2874F	Tape & Reel
2.94M OHM	1/4W	1%	±200 ppm	9C12063A2944F	Tape & Reel
3.00M OHM	1/4W	1%	±200 ppm	9C12063A3004F	Tape & Reel
3.01M OHM	1/4W	1%	±200 ppm	9C12063A3014F	Tape & Reel
3.09M OHM	1/4W	1%	±200 ppm	9C12063A3094F	Tape & Reel
3.16M OHM	1/4W	1%	±200 ppm	9C12063A3164F	Tape & Reel
3.24M OHM	1/4W	1%	±200 ppm	9C12063A3244F	Tape & Reel
3.30M OHM	1/4W	1%	±200 ppm	9C12063A3304F	Tape & Reel
3.32M OHM	1/4W	1%	±200 ppm	9C12063A3324F	Tape & Reel
3.40M OHM	1/4W	1%	±200 ppm	9C12063A3404F	Tape & Reel
3.48M OHM	1/4W	1%	±200 ppm	9C12063A3484F	Tape & Reel
3.57M OHM	1/4W	1%	±200 ppm	9C12063A3574F	Tape & Reel
3.60M OHM	1/4W	1%	±200 ppm	9C12063A3604F	Tape & Reel
3.65M OHM	1/4W	1%	±200 ppm	9C12063A3654F	Tape & Reel
3.74M OHM	1/4W	1%	±200 ppm	9C12063A3744F	Tape & Reel
3.83M OHM	1/4W	1%	±200 ppm	9C12063A3834F	Tape & Reel
3.90M OHM	1/4W	1%	±200 ppm	9C12063A3904F	Tape & Reel
3.92M OHM	1/4W	1%	±200 ppm	9C12063A3924F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
4.02M OHM	1/4W	1%	±200 ppm	9C12063A4024F	Tape & Reel
4.12M OHM	1/4W	1%	±200 ppm	9C12063A4124F	Tape & Reel
4.22M OHM	1/4W	1%	±200 ppm	9C12063A4224F	Tape & Reel
4.30M OHM	1/4W	1%	±200 ppm	9C12063A4304F	Tape & Reel
4.32M OHM	1/4W	1%	±200 ppm	9C12063A4324F	Tape & Reel
4.42M OHM	1/4W	1%	±200 ppm	9C12063A4424F	Tape & Reel
4.53M OHM	1/4W	1%	±200 ppm	9C12063A4534F	Tape & Reel
4.64M OHM	1/4W	1%	±200 ppm	9C12063A4644F	Tape & Reel
4.70M OHM	1/4W	1%	±200 ppm	9C12063A4704F	Tape & Reel
4.75M OHM	1/4W	1%	±200 ppm	9C12063A4754F	Tape & Reel
4.87M OHM	1/4W	1%	±200 ppm	9C12063A4874F	Tape & Reel
4.99M OHM	1/4W	1%	±200 ppm	9C12063A4994F	Tape & Reel
5.10M OHM	1/4W	1%	±200 ppm	9C12063A5104F	Tape & Reel
5.11M OHM	1/4W	1%	±200 ppm	9C12063A5114F	Tape & Reel
5.23M OHM	1/4W	1%	±200 ppm	9C12063A5234F	Tape & Reel
5.36M OHM	1/4W	1%	±200 ppm	9C12063A5364F	Tape & Reel
5.49M OHM	1/4W	1%	±200 ppm	9C12063A5494F	Tape & Reel
5.60M OHM	1/4W	1%	±200 ppm	9C12063A5604F	Tape & Reel
5.62M OHM	1/4W	1%	±200 ppm	9C12063A5624F	Tape & Reel
5.76M OHM	1/4W	1%	±200 ppm	9C12063A5764F	Tape & Reel
5.90M OHM	1/4W	1%	±200 ppm	9C12063A5904F	Tape & Reel
6.04M OHM	1/4W	1%	±200 ppm	9C12063A6044F	Tape & Reel
6.19M OHM	1/4W	1%	±200 ppm	9C12063A6194F	Tape & Reel
6.20M OHM	1/4W	1%	±200 ppm	9C12063A6204F	Tape & Reel
6.34M OHM	1/4W	1%	±200 ppm	9C12063A6344F	Tape & Reel
6.49M OHM	1/4W	1%	±200 ppm	9C12063A6494F	Tape & Reel
6.65M OHM	1/4W	1%	±200 ppm	9C12063A6654F	Tape & Reel
6.80M OHM	1/4W	1%	±200 ppm	9C12063A6804F	Tape & Reel
6.81M OHM	1/4W	1%	±200 ppm	9C12063A6814F	Tape & Reel
6.98M OHM	1/4W	1%	±200 ppm	9C12063A6984F	Tape & Reel
7.15M OHM	1/4W	1%	±200 ppm	9C12063A7154F	Tape & Reel
7.32M OHM	1/4W	1%	±200 ppm	9C12063A7324F	Tape & Reel
7.50M OHM	1/4W	1%	±200 ppm	9C12063A7504F	Tape & Reel
7.68M OHM	1/4W	1%	±200 ppm	9C12063A7684F	Tape & Reel
7.87M OHM	1/4W	1%	±200 ppm	9C12063A7874F	Tape & Reel
8.06M OHM	1/4W	1%	±200 ppm	9C12063A8064F	Tape & Reel
8.20M OHM	1/4W	1%	±200 ppm	9C12063A8204F	Tape & Reel
8.25M OHM	1/4W	1%	±200 ppm	9C12063A8254F	Tape & Reel
8.45M OHM	1/4W	1%	±200 ppm	9C12063A8454F	Tape & Reel
8.66M OHM	1/4W	1%	±200 ppm	9C12063A8664F	Tape & Reel
8.87M OHM	1/4W	1%	±200 ppm	9C12063A8874F	Tape & Reel
9.09M OHM	1/4W	1%	±200 ppm	9C12063A9094F	Tape & Reel
9.10M OHM	1/4W	1%	±200 ppm	9C12063A9104F	Tape & Reel
9.31M OHM	1/4W	1%	±200 ppm	9C12063A9314F	Tape & Reel
9.53M OHM	1/4W	1%	±200 ppm	9C12063A9534F	Tape & Reel
9.76M OHM	1/4W	1%	±200 ppm	9C12063A9764F	Tape & Reel
10.0M OHM	1/4W	1%	±200 ppm	9C12063A1005F	Tape & Reel

Surface Mount Resistor Chip Series 2322 726 Size 1206

PHILIPS



Precision Resistor Chip Series 2322 726

1206 size
1% Tolerance
0.25 W Power Rating
Improved Performance at High Frequencies

2322	726	2	470	9
				Resistance Magnitude
				8 = 1-9.76 Ω
				9 = 10-97.6 Ω
				1 = 100-976 Ω
				2 = 1K-9.76K Ω
				3 = 10K-97.6K Ω
				4 = 100K-976K Ω
				5 = 1M-9.76M Ω
				6 = 10M Ω

Resistance Value

Packaging

- 1 = Plastic Blister Tape, 5,000 reel
- 2 = Cardboard Tape, 5,000 reel
- 3 = Cardboard Tape, 10,000 reel
- 4 = Plastic Blister Tape, 10,000 reel

Type

726 = 1206, 1%, 0.25W

Chip Resistor

Marking

Parts marked with resistance value

Packaging

Tape & Reel - 5,000 piece reels

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/ $^{\circ}$ C	Tol %
726	0.25	1R-4R99	± 250	1
		5R1-9R76	± 200	
		10R-1M	± 100	
		1.02M-10M	± 200	



Precision Resistor Chip Series 2322 727, 732, 733

1206 & 0805 Size

1% Tolerance

Low TC

2322	727	2	479	1
				Resistance Magnitude
				1 = 100-976Ω
				2 = 1K-9.76KΩ
				3 = 10K-97.6KΩ
				4 = 100K-976KΩ
				5 = 1MΩ
				Resistance Value
				Reel Size
				2 = 5,000 piece reel (1206)
				3 = 10,000 piece reel (1206)
				6 = 5,000 piece reel (0805)
				7 = 10,000 piece reel (0805)
				Series
				727 = 1206, 0.25 W
				732 = 0805, 0.100 W
				Fixed Resistor

General Specifications

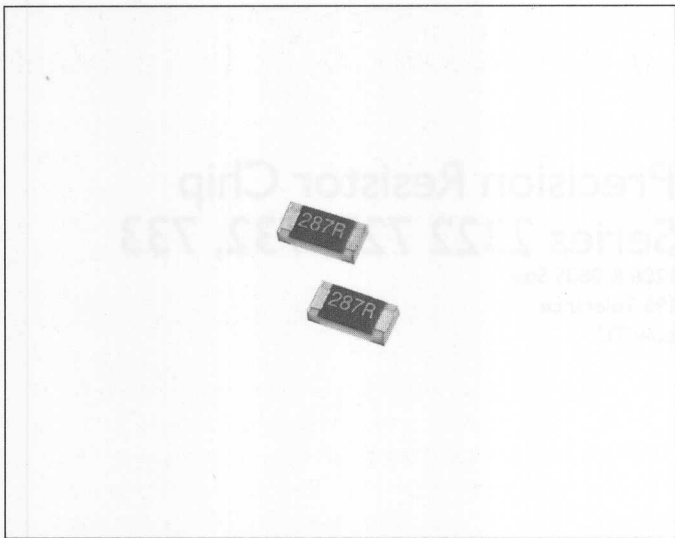
Style	Size	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %	Max Volt V
727	1206	0.250	250R-1M	±50	1	200
732 (733)	0805	0.100	100R-249R 250R-1M	±100 ±50	1	150

Marking

Parts are marked with resistance value

Packaging

Tape & Reel - 5,000 piece reels (standard)
10,000 piece reels (non-standard)



High Precision Resistor Chip
Series 2322 725, 738, 741, 744

1206 & 0805 Size
0.1% and 0.5% Tolerance
High Stability

2322

725 1

479

1

Resistance Magnitude

9 = 10-97.6Ω
1 = 100-976Ω
2 = 1K-9.76KΩ
3 = 10K-97.6KΩ
4 = 100K-976KΩ
5 = 1MΩ

Resistance Value

Series & Packaging

725 1 = 1206, 0.5%, 5K pc blister tape
738 1 = 0805, 0.5%, 5K pc blister tape
738 2 = 0805, 0.5%, 5K pc cardboard tape
741 2 = 1206, 0.1%, 1K pc blister tape
741 3 = 1206, 0.1%, 5K pc blister tape
744 x = 0805, 0.1%, 1K pc blister tape
744 x = 0805, 0.1%, 5K pc blister tape

General Specifications

Style	Size	Max Pwr W	Resistance Range Ohms	TC PPM/ °C	Tol %	Max Volt V
725	1206	0.125	100R-249R 250R-1M	±100 ±50	0.5	200
738	0805	0.100	100R-249R 250R-1M	±100 ±50	0.5	150
741	1206	0.125	10R-301K	±25	0.1	100
744	0805	0.100	10R-30K	±25	0.1	100

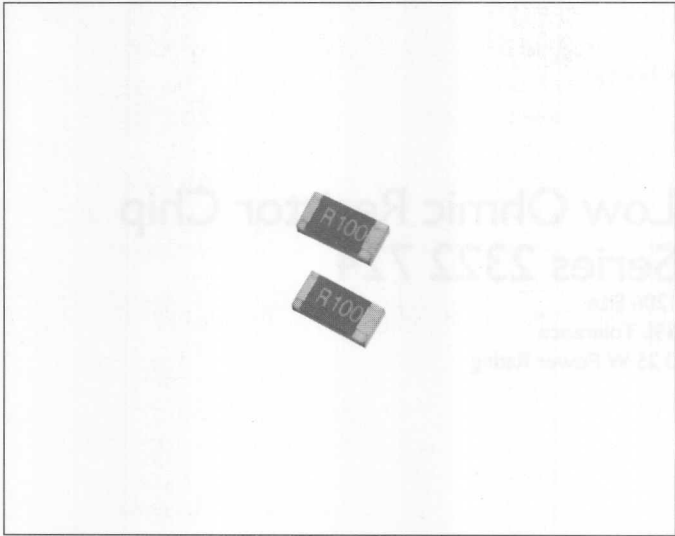
Fixed Resistor

Marking

Parts are marked with resistance value

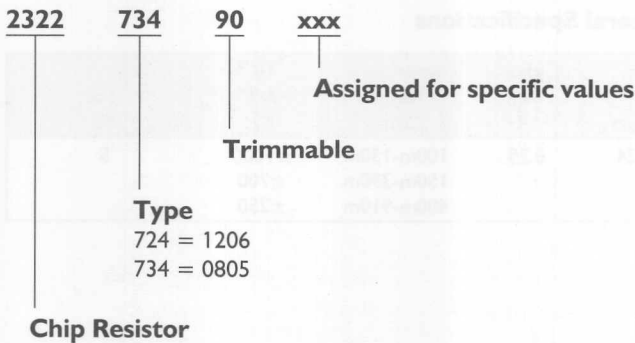
Packaging

Tape & Reel - as indicated above



Trimmable Resistor Chip
Series 2322 724, 734

1206 & 0805 size
+0/-20% & +0/-30% Tolerance



General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
724	0.25	1R-4R99	±250	+0/-20, +0/-30
		5R1-9R76	±200	
		10R-1M	±100	
734	0.10	1R-9R1	±500	+0/-20, +0/-30
		10R-10M	±100	

Marking

Parts are not marked

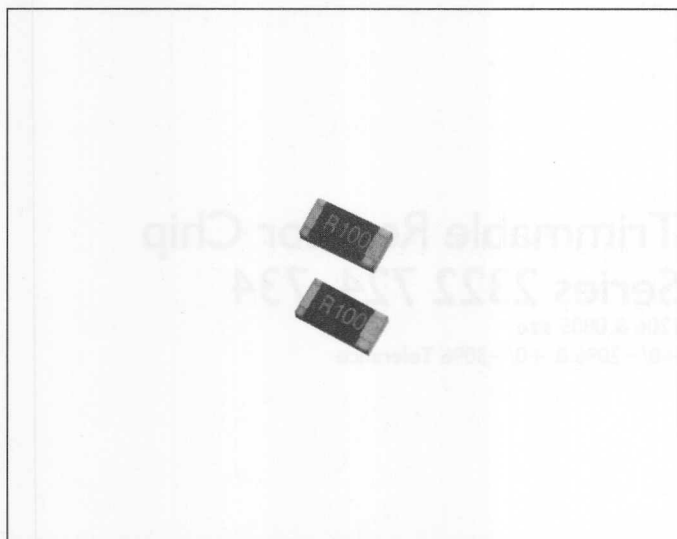
Packaging

- 724: Tape & Reel - 5,000 piece reels
 Bulk - 1,000 pieces
- 734: Tape & Reel - 5,000 piece reels

Surface Mount Resistor Chip

Series 2322 724 Size 1206

PHILIPS



Low Ohmic Resistor Chip

Series 2322 724

1206 Size

5% Tolerance

0.25 W Power Rating

2322 724 960 02

Resistance Value

02 = 100mΩ
 03 = 110mΩ
 04 = 120mΩ
 05 = 130mΩ
 06 = 150mΩ
 07 = 160mΩ
 08 = 180mΩ
 09 = 200mΩ
 26 = 220mΩ
 11 = 240mΩ
 12 = 270mΩ
 13 = 300mΩ
 14 = 330mΩ
 15 = 360mΩ
 16 = 390mΩ
 17 = 430mΩ
 18 = 470mΩ
 19 = 510mΩ
 27 = 560mΩ
 21 = 620mΩ
 22 = 680mΩ
 23 = 750mΩ
 24 = 820mΩ
 25 = 910mΩ

Low Ohmic

Type

724 = 1206

Chip Resistor

Marking

Parts are marked with Resistance code

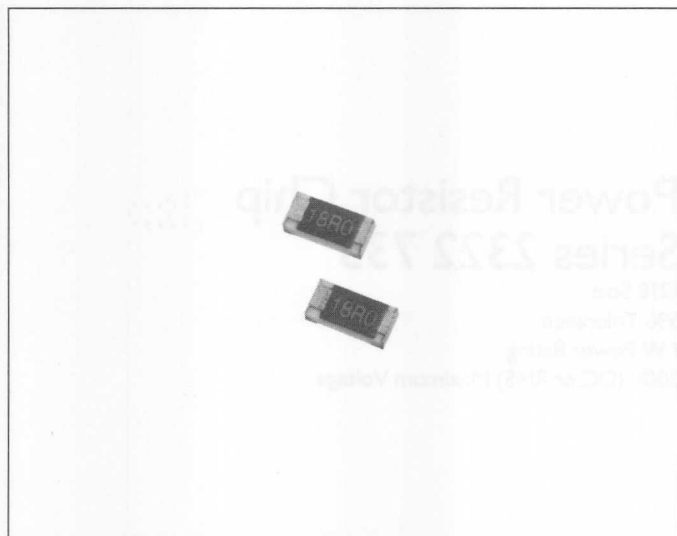
Packaging

Tape & Reel - 5,000 piece reels

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

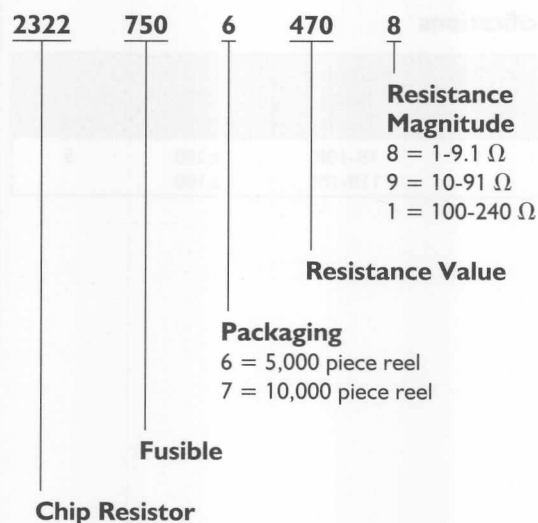
General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/° C	Tol %
724	0.25	100m-130m 150m-390m 400m-910m	±1000 ±700 ±250	5



Fusible Resistor Chip Series 2322 750

1206 size
5% Tolerance
0.125 W Power Rating



General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/ $^{\circ}$ C	Tol %
750	0.125	1R-4.7R 5R1-240R	± 250 ± 200	5

Marking

Parts marked with Resistance code

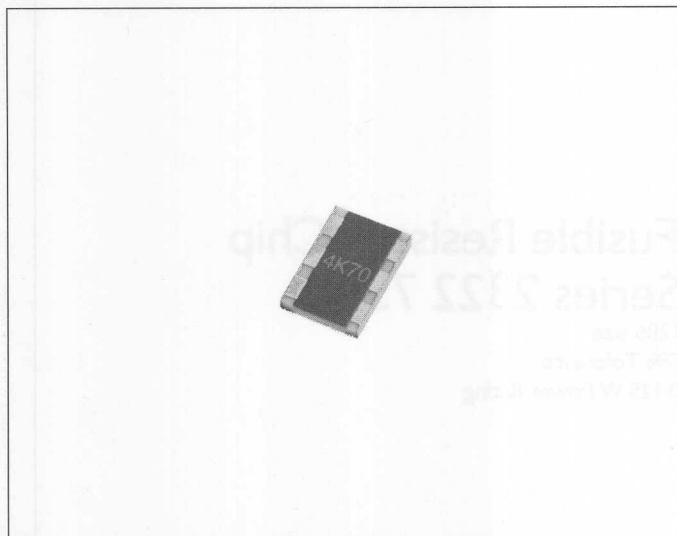
Packaging

Tape & Reel - 5,000 piece reels
10,000 piece reels

Surface Mount Power Resistor Chip

Series 2322 735 Size 1218

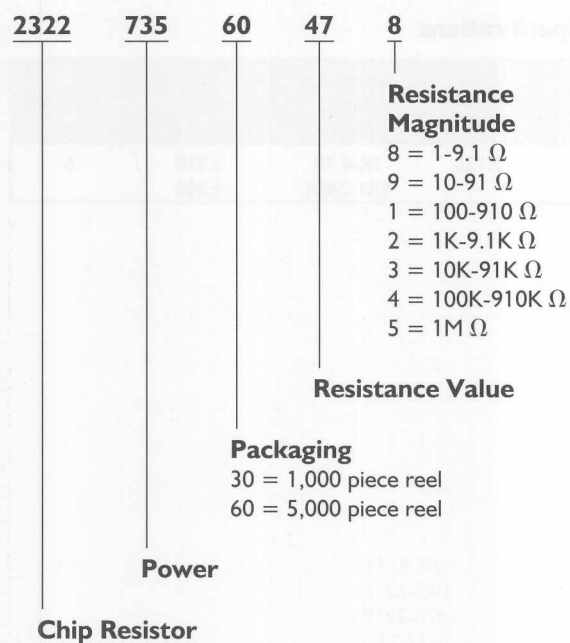
PHILIPS



Power Resistor Chip

Series 2322 735

1218 Size
5% Tolerance
1 W Power Rating
200V (DC or RMS) Maximum Voltage



General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
735	1	1R-10R 11R-1M	± 200 ± 100	5

Marking

Parts marked with Resistance code

Packaging

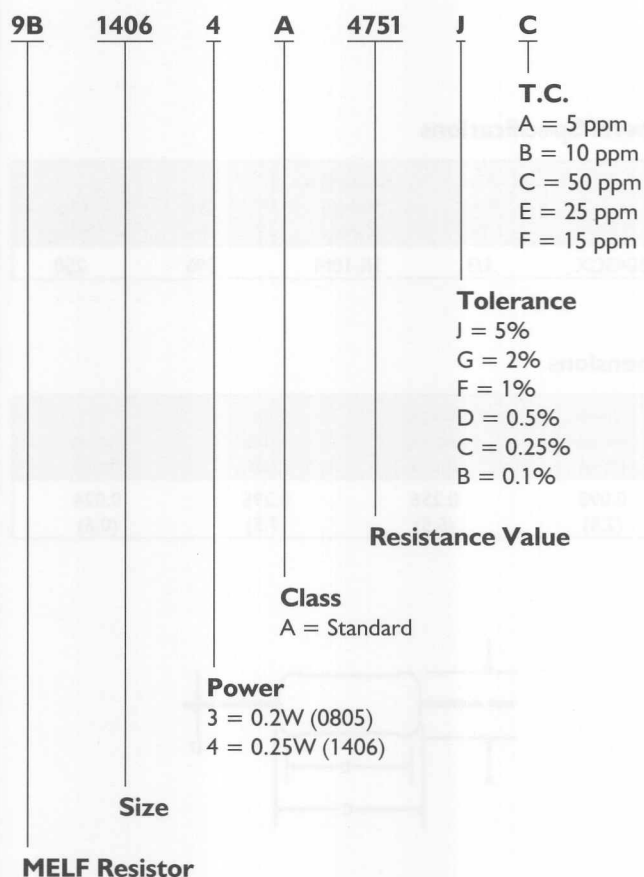
Tape & Reel - 5,000 piece reels
10,000 piece reels

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.



MELF Resistor Series 9B

1406 & 0805 Size
0.1 to 5% Tolerance
High Stability
Low TC



General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %	Max Volt V
1406	0.25	0.22R-10M	±50	5	200
		1R-10M		2, 1	
		10R-475K		0.5	
		22R-330K		0.25	
		43R-330K		0.1	
		10R-475K	±25	1, 0.5	
		22R-330K		0.25	
		43R-330K		0.1	
		10R-221K	±15	0.5	
		22R-221K		0.25	
		43R-221K		0.1	
		22R-221K	±10	0.25	
		43R-221K		0.1	
		100R-100K	±5	0.25, 0.1	
0805	0.20	.22R-0.91M	±50	5	100
		1R-9.1M		2	
		10R-2.21M		1	
		47R-221K		0.5	
		100R-221K		0.25	
		10R-221K	±25	1	
		47R-221K		0.5	
		100R-100K		0.25	
		1100R-100K	±15	0.1	
		100R-100K		0.5	
		100R-100K		0.25, 0.1	

Marking

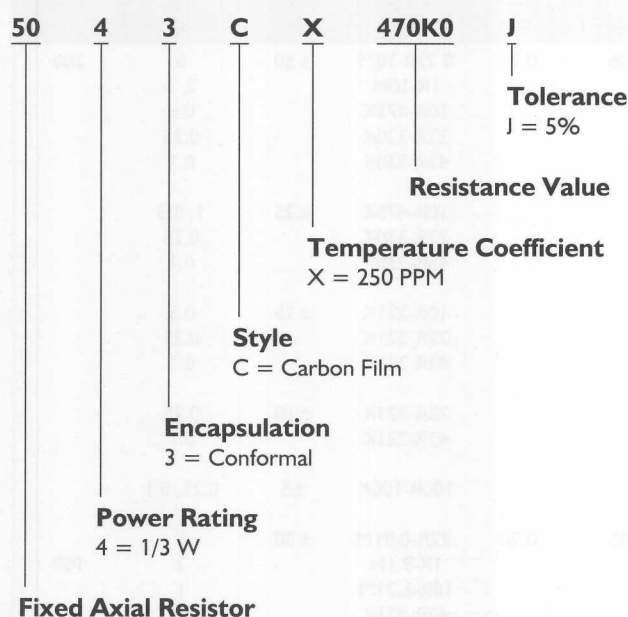
Color Band

Packaging

Tape & Reel - 5,000 piece reels
Bulk

Carbon Film Axial Lead Resistor Series 5043CX

PHILIPS



Marking

Color Band Marking

Packaging

Tape & Reel - 5,000 piece reels (preferred). To order, add "T/R" to end of part number.

Bulk - 100 pieces per box

Carbon Film Resistor Series 5043CX

1/3 Watt

5% Tolerance

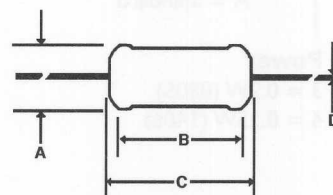
Conformal Coated

General Specifications

Style	Max Pwr W	Resistance Range Ohms	Tol %	Max Voltage
5043CX	1/3	1R-10M	5%	250

Dimensions

A max Inches (mm)	B max Inches (mm)	C Inches (mm)	D Inches (mm)
0.098 (2.5)	0.256 (6.5)	0.295 (7.5)	0.024 (0.6)



Value	Wattage	Tolerance	Philips Part Number	Packaging Type
1 OHM	1/3W	5%	5043CX1R000J	Tape & Reel
1.1 OHM	1/3W	5%	5043CX1R100J	Tape & Reel
1.2 OHM	1/3W	5%	5043CX1R200J	Tape & Reel
1.3 OHM	1/3W	5%	5043CX1R300J	Tape & Reel
1.5 OHM	1/3W	5%	5043CX1R500J	Tape & Reel
1.6 OHM	1/3W	5%	5043CX1R600J	Tape & Reel
1.8 OHM	1/3W	5%	5043CX1R800J	Tape & Reel
2 OHM	1/3W	5%	5043CX2R000J	Tape & Reel
2.2 OHM	1/3W	5%	5043CX2R200J	Tape & Reel
2.4 OHM	1/3W	5%	5043CX2R400J	Tape & Reel
2.7 OHM	1/3W	5%	5043CX2R700J	Tape & Reel
3 OHM	1/3W	5%	5043CX3R000J	Tape & Reel
3.3 OHM	1/3W	5%	5043CX3R300J	Tape & Reel
3.6 OHM	1/3W	5%	5043CX3R600J	Tape & Reel
3.9 OHM	1/3W	5%	5043CX3R900J	Tape & Reel
4.3 OHM	1/3W	5%	5043CX4R300J	Tape & Reel
4.7 OHM	1/3W	5%	5043CX4R700J	Tape & Reel
5.1 OHM	1/3W	5%	5043CX5R100J	Tape & Reel
5.6 OHM	1/3W	5%	5043CX5R600J	Tape & Reel
6.2 OHM	1/3W	5%	5043CX6R200J	Tape & Reel
6.8 OHM	1/3W	5%	5043CX6R800J	Tape & Reel
7.5 OHM	1/3W	5%	5043CX7R500J	Tape & Reel
8.2 OHM	1/3W	5%	5043CX8R200J	Tape & Reel
9.1 OHM	1/3W	5%	5043CX9R100J	Tape & Reel
10 OHM	1/3W	5%	5043CX10R00J	Tape & Reel
11 OHM	1/3W	5%	5043CX11R00J	Tape & Reel
12 OHM	1/3W	5%	5043CX12R00J	Tape & Reel
13 OHM	1/3W	5%	5043CX13R00J	Tape & Reel
15 OHM	1/3W	5%	5043CX15R00J	Tape & Reel
16 OHM	1/3W	5%	5043CX16R00J	Tape & Reel
18 OHM	1/3W	5%	5043CX18R00J	Tape & Reel
20 OHM	1/3W	5%	5043CX20R00J	Tape & Reel
22 OHM	1/3W	5%	5043CX22R00J	Tape & Reel
24 OHM	1/3W	5%	5043CX24R00J	Tape & Reel
27 OHM	1/3W	5%	5043CX27R00J	Tape & Reel
30 OHM	1/3W	5%	5043CX30R00J	Tape & Reel
33 OHM	1/3W	5%	5043CX33R00J	Tape & Reel
36 OHM	1/3W	5%	5043CX36R00J	Tape & Reel
39 OHM	1/3W	5%	5043CX39R00J	Tape & Reel
43 OHM	1/3W	5%	5043CX43R00J	Tape & Reel
47 OHM	1/3W	5%	5043CX47R00J	Tape & Reel
51 OHM	1/3W	5%	5043CX51R00J	Tape & Reel
56 OHM	1/3W	5%	5043CX56R00J	Tape & Reel
62 OHM	1/3W	5%	5043CX62R00J	Tape & Reel
68 OHM	1/3W	5%	5043CX68R00J	Tape & Reel
75 OHM	1/3W	5%	5043CX75R00J	Tape & Reel
82 OHM	1/3W	5%	5043CX82R00J	Tape & Reel
91 OHM	1/3W	5%	5043CX91R00J	Tape & Reel
100 OHM	1/3W	5%	5043CX100R0J	Tape & Reel
110 OHM	1/3W	5%	5043CX110R0J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Carbon Film Axial Lead Resistor

Series 5043CX

PHILIPS

Value	Wattage	Tolerance	Philips Part Number	Packaging Type
120 OHM	1/3W	5%	5043CX120R0J	Tape & Reel
130 OHM	1/3W	5%	5043CX130R0J	Tape & Reel
150 OHM	1/3W	5%	5043CX150R0J	Tape & Reel
160 OHM	1/3W	5%	5043CX160R0J	Tape & Reel
180 OHM	1/3W	5%	5043CX180R0J	Tape & Reel
200 OHM	1/3W	5%	5043CX200R0J	Tape & Reel
220 OHM	1/3W	5%	5043CX220R0J	Tape & Reel
240 OHM	1/3W	5%	5043CX240R0J	Tape & Reel
270 OHM	1/3W	5%	5043CX270R0J	Tape & Reel
300 OHM	1/3W	5%	5043CX300R0J	Tape & Reel
330 OHM	1/3W	5%	5043CX330R0J	Tape & Reel
360 OHM	1/3W	5%	5043CX360R0J	Tape & Reel
390 OHM	1/3W	5%	5043CX390R0J	Tape & Reel
430 OHM	1/3W	5%	5043CX430R0J	Tape & Reel
470 OHM	1/3W	5%	5043CX470R0J	Tape & Reel
510 OHM	1/3W	5%	5043CX510R0J	Tape & Reel
560 OHM	1/3W	5%	5043CX560R0J	Tape & Reel
620 OHM	1/3W	5%	5043CX620R0J	Tape & Reel
680 OHM	1/3W	5%	5043CX680R0J	Tape & Reel
750 OHM	1/3W	5%	5043CX750R0J	Tape & Reel
820 OHM	1/3W	5%	5043CX820R0J	Tape & Reel
910 OHM	1/3W	5%	5043CX910R0J	Tape & Reel
1 K OHM	1/3W	5%	5043CX1K000J	Tape & Reel
1.1 K OHM	1/3W	5%	5043CX1K100J	Tape & Reel
1.2 K OHM	1/3W	5%	5043CX1K200J	Tape & Reel
1.3 K OHM	1/3W	5%	5043CX1K300J	Tape & Reel
1.5 K OHM	1/3W	5%	5043CX1K500J	Tape & Reel
1.6 K OHM	1/3W	5%	5043CX1K600J	Tape & Reel
1.8 K OHM	1/3W	5%	5043CX1K800J	Tape & Reel
2 K OHM	1/3W	5%	5043CX2K000J	Tape & Reel
2.2 K OHM	1/3W	5%	5043CX2K200J	Tape & Reel
2.4 K OHM	1/3W	5%	5043CX2K400J	Tape & Reel
2.7 K OHM	1/3W	5%	5043CX2K700J	Tape & Reel
3 K OHM	1/3W	5%	5043CX3K000J	Tape & Reel
3.3 K OHM	1/3W	5%	5043CX3K300J	Tape & Reel
3.6 K OHM	1/3W	5%	5043CX3K600J	Tape & Reel
3.9 K OHM	1/3W	5%	5043CX3K900J	Tape & Reel
4.3 K OHM	1/3W	5%	5043CX4K300J	Tape & Reel
4.7 K OHM	1/3W	5%	5043CX4K700J	Tape & Reel
5.1 K OHM	1/3W	5%	5043CX5K100J	Tape & Reel
5.6 K OHM	1/3W	5%	5043CX5K600J	Tape & Reel
6.2 K OHM	1/3W	5%	5043CX6K200J	Tape & Reel
6.8 K OHM	1/3W	5%	5043CX6K800J	Tape & Reel
7.5 K OHM	1/3W	5%	5043CX7K500J	Tape & Reel
8.2 K OHM	1/3W	5%	5043CX8K200J	Tape & Reel
9.1 K OHM	1/3W	5%	5043CX9K100J	Tape & Reel
10 K OHM	1/3W	5%	5043CX10K00J	Tape & Reel
11 K OHM	1/3W	5%	5043CX11K00J	Tape & Reel
12 K OHM	1/3W	5%	5043CX12K00J	Tape & Reel
13 K OHM	1/3W	5%	5043CX13K00J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	Philips Part Number	Packaging Type
15 K OHM	1/3W	5%	5043CX15K00J	Tape & Reel
16 K OHM	1/3W	5%	5043CX16K00J	Tape & Reel
18 K OHM	1/3W	5%	5043CX18K00J	Tape & Reel
20 K OHM	1/3W	5%	5043CX20K00J	Tape & Reel
22 K OHM	1/3W	5%	5043CX22K00J	Tape & Reel
24 K OHM	1/3W	5%	5043CX24K00J	Tape & Reel
27 K OHM	1/3W	5%	5043CX27K00J	Tape & Reel
30 K OHM	1/3W	5%	5043CX30K00J	Tape & Reel
33 K OHM	1/3W	5%	5043CX33K00J	Tape & Reel
36 K OHM	1/3W	5%	5043CX36K00J	Tape & Reel
39 K OHM	1/3W	5%	5043CX39K00J	Tape & Reel
43 K OHM	1/3W	5%	5043CX43K00J	Tape & Reel
47 K OHM	1/3W	5%	5043CX47K00J	Tape & Reel
51 K OHM	1/3W	5%	5043CX51K00J	Tape & Reel
56 K OHM	1/3W	5%	5043CX56K00J	Tape & Reel
62 K OHM	1/3W	5%	5043CX62K00J	Tape & Reel
68 K OHM	1/3W	5%	5043CX68K00J	Tape & Reel
75 K OHM	1/3W	5%	5043CX75K00J	Tape & Reel
82 K OHM	1/3W	5%	5043CX82K00J	Tape & Reel
91 K OHM	1/3W	5%	5043CX91K00J	Tape & Reel
100 K OHM	1/3W	5%	5043CX100K0J	Tape & Reel
110 K OHM	1/3W	5%	5043CX110K0J	Tape & Reel
120 K OHM	1/3W	5%	5043CX120K0J	Tape & Reel
130 K OHM	1/3W	5%	5043CX130K0J	Tape & Reel
150 K OHM	1/3W	5%	5043CX150K0J	Tape & Reel
160 K OHM	1/3W	5%	5043CX160K0J	Tape & Reel
180 K OHM	1/3W	5%	5043CX180K0J	Tape & Reel
200 K OHM	1/3W	5%	5043CX200K0J	Tape & Reel
220 K OHM	1/3W	5%	5043CX220K0J	Tape & Reel
240 K OHM	1/3W	5%	5043CX240K0J	Tape & Reel
270 K OHM	1/3W	5%	5043CX270K0J	Tape & Reel
300 K OHM	1/3W	5%	5043CX300K0J	Tape & Reel
330 K OHM	1/3W	5%	5043CX330K0J	Tape & Reel
360 K OHM	1/3W	5%	5043CX360K0J	Tape & Reel
390 K OHM	1/3W	5%	5043CX390K0J	Tape & Reel
430 K OHM	1/3W	5%	5043CX430K0J	Tape & Reel
470 K OHM	1/3W	5%	5043CX470K0J	Tape & Reel
510 K OHM	1/3W	5%	5043CX510K0J	Tape & Reel
560 K OHM	1/3W	5%	5043CX560K0J	Tape & Reel
620 K OHM	1/3W	5%	5043CX620K0J	Tape & Reel
680 K OHM	1/3W	5%	5043CX680K0J	Tape & Reel
750 K OHM	1/3W	5%	5043CX750K0J	Tape & Reel
820 K OHM	1/3W	5%	5043CX820K0J	Tape & Reel
910 K OHM	1/3W	5%	5043CX910K0J	Tape & Reel
1 M OHM	1/3W	5%	5043CX1M000J	Tape & Reel
1.1 M OHM	1/3W	5%	5043CX1M100J	Tape & Reel
1.2 M OHM	1/3W	5%	5043CX1M200J	Tape & Reel
1.3 M OHM	1/3W	5%	5043CX1M300J	Tape & Reel
1.5 M OHM	1/3W	5%	5043CX1M500J	Tape & Reel
1.6 M OHM	1/3W	5%	5043CX1M600J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

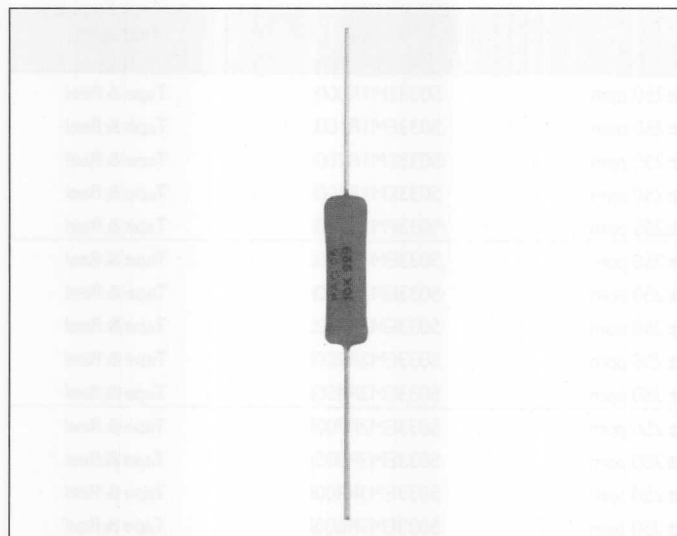
Carbon Film Axial Lead Resistor Series 5043CX

PHILIPS

Value	Wattage	Tolerance	Philips Part Number	Packaging Type
1.8 M OHM	1/3W	5%	5043CX1M800J	Tape & Reel
2 M OHM	1/3W	5%	5043CX2M000J	Tape & Reel
2.2 M OHM	1/3W	5%	5043CX2M200J	Tape & Reel
2.4 M OHM	1/3W	5%	5043CX2M400J	Tape & Reel
2.7 M OHM	1/3W	5%	5043CX2M700J	Tape & Reel
3 M OHM	1/3W	5%	5043CX3M000J	Tape & Reel
3.3 M OHM	1/3W	5%	5043CX3M300J	Tape & Reel
3.6 M OHM	1/3W	5%	5043CX3M600J	Tape & Reel
3.9 M OHM	1/3W	5%	5043CX3M900J	Tape & Reel
4.3 M OHM	1/3W	5%	5043CX4M300J	Tape & Reel
4.7 M OHM	1/3W	5%	5043CX4M700J	Tape & Reel
5.1 M OHM	1/3W	5%	5043CX5M100J	Tape & Reel
5.6 M OHM	1/3W	5%	5043CX5M600J	Tape & Reel
6.2 M OHM	1/3W	5%	5043CX6M200J	Tape & Reel
6.8 M OHM	1/3W	5%	5043CX6M800J	Tape & Reel
7.5 M OHM	1/3W	5%	5043CX7M500J	Tape & Reel
8.2 M OHM	1/3W	5%	5043CX8M200J	Tape & Reel
9.1 M OHM	1/3W	5%	5043CX9M100J	Tape & Reel
10 M OHM	1/3W	5%	5043CX10M00J	Tape & Reel

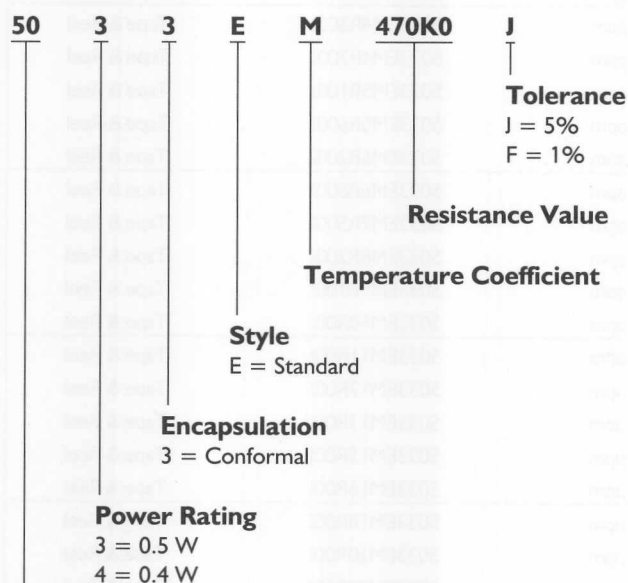
TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.



Standard Metal Film Resistor Series 5033E, 5043E

0.4 & 0.5 Watt
1% & 5% Tolerance
Small Size
Low Noise
Zero ohm jumper also available.



Fixed Axial Resistor

Marking

Color Band Marking

Packaging

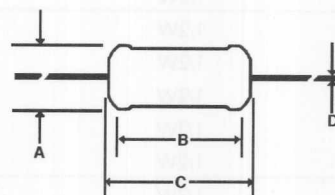
Tape & Reel - 5,000 piece reels (preferred). To order, add "T/R" to end of part number.
Ammo Pack - 5,000 piece box

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/C	Tol %	Max Voltage
5033EM	0.5	1R-4.7R 4.7R-100K 100K-3M	±250 ppm ±100 ppm ±200 ppm	5%	200
5033ED	0.5	10R-1M	±100	1%	200
5043EM	0.4	1R-1M 1M-10M	±100 ppm ±250 ppm	5%	250
5043ED	0.4	10R-1M	±100	1%	250

Dimensions

Type	A max Inches (mm)	B max Inches (mm)	C max Inches (mm)	D nom Inches (mm)
5033E	0.075 (1.9)	0.126 (3.2)	0.134 (3.4)	0.018±.002 (0.45±0.5)
5043E	0.098 (2.5)	0.256 (6.5)		0.024±.002 (0.60±.05)



Metal Film Axial Lead Resistor

Series 5033EM

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1 OHM	1/2W	5%	±250 ppm	5033EM1R000J	Tape & Reel
1.1 OHM	1/2W	5%	±250 ppm	5033EM1R100J	Tape & Reel
1.2 OHM	1/2W	5%	±250 ppm	5033EM1R200J	Tape & Reel
1.3 OHM	1/2W	5%	±250 ppm	5033EM1R300J	Tape & Reel
1.5 OHM	1/2W	5%	±250 ppm	5033EM1R500J	Tape & Reel
1.6 OHM	1/2W	5%	±250 ppm	5033EM1R600J	Tape & Reel
1.8 OHM	1/2W	5%	±250 ppm	5033EM1R800J	Tape & Reel
2 OHM	1/2W	5%	±250 ppm	5033EM2R000J	Tape & Reel
2.2 OHM	1/2W	5%	±250 ppm	5033EM2R200J	Tape & Reel
2.4 OHM	1/2W	5%	±250 ppm	5033EM2R400J	Tape & Reel
2.7 OHM	1/2W	5%	±250 ppm	5033EM2R700J	Tape & Reel
3 OHM	1/2W	5%	±250 ppm	5033EM3R000J	Tape & Reel
3.3 OHM	1/2W	5%	±250 ppm	5033EM3R300J	Tape & Reel
3.6 OHM	1/2W	5%	±250 ppm	5033EM3R600J	Tape & Reel
3.9 OHM	1/2W	5%	±250 ppm	5033EM3R900J	Tape & Reel
4.3 OHM	1/2W	5%	±250 ppm	5033EM4R300J	Tape & Reel
4.7 OHM	1/2W	5%	±100 ppm	5033EM4R700J	Tape & Reel
5.1 OHM	1/2W	5%	±100 ppm	5033EM5R100J	Tape & Reel
5.6 OHM	1/2W	5%	±100 ppm	5033EM5R600J	Tape & Reel
6.2 OHM	1/2W	5%	±100 ppm	5033EM6R200J	Tape & Reel
6.8 OHM	1/2W	5%	±100 ppm	5033EM6R800J	Tape & Reel
7.5 OHM	1/2W	5%	±100 ppm	5033EM7R500J	Tape & Reel
8.2 OHM	1/2W	5%	±100 ppm	5033EM8R200J	Tape & Reel
9.1 OHM	1/2W	5%	±100 ppm	5033EM9R100J	Tape & Reel
10 OHM	1/2W	5%	±100 ppm	5033EM10R00J	Tape & Reel
11 OHM	1/2W	5%	±100 ppm	5033EM11R00J	Tape & Reel
12 OHM	1/2W	5%	±100 ppm	5033EM12R00J	Tape & Reel
13 OHM	1/2W	5%	±100 ppm	5033EM13R00J	Tape & Reel
15 OHM	1/2W	5%	±100 ppm	5033EM15R00J	Tape & Reel
16 OHM	1/2W	5%	±100 ppm	5033EM16R00J	Tape & Reel
18 OHM	1/2W	5%	±100 ppm	5033EM18R00J	Tape & Reel
20 OHM	1/2W	5%	±100 ppm	5033EM20R00J	Tape & Reel
22 OHM	1/2W	5%	±100 ppm	5033EM22R00J	Tape & Reel
24 OHM	1/2W	5%	±100 ppm	5033EM24R00J	Tape & Reel
27 OHM	1/2W	5%	±100 ppm	5033EM27R00J	Tape & Reel
30 OHM	1/2W	5%	±100 ppm	5033EM30R00J	Tape & Reel
33 OHM	1/2W	5%	±100 ppm	5033EM33R00J	Tape & Reel
36 OHM	1/2W	5%	±100 ppm	5033EM36R00J	Tape & Reel
39 OHM	1/2W	5%	±100 ppm	5033EM39R00J	Tape & Reel
43 OHM	1/2W	5%	±100 ppm	5033EM43R00J	Tape & Reel
47 OHM	1/2W	5%	±100 ppm	5033EM47R00J	Tape & Reel
51 OHM	1/2W	5%	±100 ppm	5033EM51R00J	Tape & Reel
56 OHM	1/2W	5%	±100 ppm	5033EM56R00J	Tape & Reel
62 OHM	1/2W	5%	±100 ppm	5033EM62R00J	Tape & Reel
68 OHM	1/2W	5%	±100 ppm	5033EM68R00J	Tape & Reel
75 OHM	1/2W	5%	±100 ppm	5033EM75R00J	Tape & Reel
82 OHM	1/2W	5%	±100 ppm	5033EM82R00J	Tape & Reel
91 OHM	1/2W	5%	±100 ppm	5033EM91R00J	Tape & Reel
100 OHM	1/2W	5%	±100 ppm	5033EM100R0J	Tape & Reel
110 OHM	1/2W	5%	±100 ppm	5033EM110R0J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	1/2W	5%	±100 ppm	5033EM120R0J	Tape & Reel
130 OHM	1/2W	5%	±100 ppm	5033EM130R0J	Tape & Reel
150 OHM	1/2W	5%	±100 ppm	5033EM150R0J	Tape & Reel
160 OHM	1/2W	5%	±100 ppm	5033EM160R0J	Tape & Reel
180 OHM	1/2W	5%	±100 ppm	5033EM180R0J	Tape & Reel
200 OHM	1/2W	5%	±100 ppm	5033EM200R0J	Tape & Reel
220 OHM	1/2W	5%	±100 ppm	5033EM220R0J	Tape & Reel
240 OHM	1/2W	5%	±100 ppm	5033EM240R0J	Tape & Reel
270 OHM	1/2W	5%	±100 ppm	5033EM270R0J	Tape & Reel
300 OHM	1/2W	5%	±100 ppm	5033EM300R0J	Tape & Reel
330 OHM	1/2W	5%	±100 ppm	5033EM330R0J	Tape & Reel
360 OHM	1/2W	5%	±100 ppm	5033EM360R0J	Tape & Reel
390 OHM	1/2W	5%	±100 ppm	5033EM390R0J	Tape & Reel
430 OHM	1/2W	5%	±100 ppm	5033EM430R0J	Tape & Reel
470 OHM	1/2W	5%	±100 ppm	5033EM470R0J	Tape & Reel
510 OHM	1/2W	5%	±100 ppm	5033EM510R0J	Tape & Reel
560 OHM	1/2W	5%	±100 ppm	5033EM560R0J	Tape & Reel
620 OHM	1/2W	5%	±100 ppm	5033EM620R0J	Tape & Reel
680 OHM	1/2W	5%	±100 ppm	5033EM680R0J	Tape & Reel
750 OHM	1/2W	5%	±100 ppm	5033EM750R0J	Tape & Reel
820 OHM	1/2W	5%	±100 ppm	5033EM820R0J	Tape & Reel
910 OHM	1/2W	5%	±100 ppm	5033EM910R0J	Tape & Reel
1 K OHM	1/2W	5%	±100 ppm	5033EM1K000J	Tape & Reel
1.1 K OHM	1/2W	5%	±100 ppm	5033EM1K100J	Tape & Reel
1.2 K OHM	1/2W	5%	±100 ppm	5033EM1K200J	Tape & Reel
1.3 K OHM	1/2W	5%	±100 ppm	5033EM1K300J	Tape & Reel
1.5 K OHM	1/2W	5%	±100 ppm	5033EM1K500J	Tape & Reel
1.6 K OHM	1/2W	5%	±100 ppm	5033EM1K600J	Tape & Reel
1.8 K OHM	1/2W	5%	±100 ppm	5033EM1K800J	Tape & Reel
2 K OHM	1/2W	5%	±100 ppm	5033EM2K000J	Tape & Reel
2.2 K OHM	1/2W	5%	±100 ppm	5033EM2K200J	Tape & Reel
2.4 K OHM	1/2W	5%	±100 ppm	5033EM2K400J	Tape & Reel
2.7 K OHM	1/2W	5%	±100 ppm	5033EM2K700J	Tape & Reel
3 K OHM	1/2W	5%	±100 ppm	5033EM3K000J	Tape & Reel
3.3 K OHM	1/2W	5%	±100 ppm	5033EM3K300J	Tape & Reel
3.6 K OHM	1/2W	5%	±100 ppm	5033EM3K600J	Tape & Reel
3.9 K OHM	1/2W	5%	±100 ppm	5033EM3K900J	Tape & Reel
4.3 K OHM	1/2W	5%	±100 ppm	5033EM4K300J	Tape & Reel
4.7 K OHM	1/2W	5%	±100 ppm	5033EM4K700J	Tape & Reel
5.1 K OHM	1/2W	5%	±100 ppm	5033EM5K100J	Tape & Reel
5.6 K OHM	1/2W	5%	±100 ppm	5033EM5K600J	Tape & Reel
6.2 K OHM	1/2W	5%	±100 ppm	5033EM6K200J	Tape & Reel
6.8 K OHM	1/2W	5%	±100 ppm	5033EM6K800J	Tape & Reel
7.5 K OHM	1/2W	5%	±100 ppm	5033EM7K500J	Tape & Reel
8.2 K OHM	1/2W	5%	±100 ppm	5033EM8K200J	Tape & Reel
9.1 K OHM	1/2W	5%	±100 ppm	5033EM9K100J	Tape & Reel
10 K OHM	1/2W	5%	±100 ppm	5033EM10K00J	Tape & Reel
11 K OHM	1/2W	5%	±100 ppm	5033EM11K00J	Tape & Reel
12 K OHM	1/2W	5%	±100 ppm	5033EM12K00J	Tape & Reel
13 K OHM	1/2W	5%	±100 ppm	5033EM13K00J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5033EM

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15 K OHM	1/2W	5%	±100 ppm	5033EM15K00J	Tape & Reel
16 K OHM	1/2W	5%	±100 ppm	5033EM16K00J	Tape & Reel
18 K OHM	1/2W	5%	±100 ppm	5033EM18K00J	Tape & Reel
20 K OHM	1/2W	5%	±100 ppm	5033EM20K00J	Tape & Reel
22 K OHM	1/2W	5%	±100 ppm	5033EM22K00J	Tape & Reel
24 K OHM	1/2W	5%	±100 ppm	5033EM24K00J	Tape & Reel
27 K OHM	1/2W	5%	±100 ppm	5033EM27K00J	Tape & Reel
30 K OHM	1/2W	5%	±100 ppm	5033EM30K00J	Tape & Reel
33 K OHM	1/2W	5%	±100 ppm	5033EM33K00J	Tape & Reel
36 K OHM	1/2W	5%	±100 ppm	5033EM36K00J	Tape & Reel
39 K OHM	1/2W	5%	±100 ppm	5033EM39K00J	Tape & Reel
43 K OHM	1/2W	5%	±100 ppm	5033EM43K00J	Tape & Reel
47 K OHM	1/2W	5%	±100 ppm	5033EM47K00J	Tape & Reel
51 K OHM	1/2W	5%	±100 ppm	5033EM51K00J	Tape & Reel
56 K OHM	1/2W	5%	±100 ppm	5033EM56K00J	Tape & Reel
62 K OHM	1/2W	5%	±100 ppm	5033EM62K00J	Tape & Reel
68 K OHM	1/2W	5%	±100 ppm	5033EM68K00J	Tape & Reel
75 K OHM	1/2W	5%	±100 ppm	5033EM75K00J	Tape & Reel
82 K OHM	1/2W	5%	±100 ppm	5033EM82K00J	Tape & Reel
91 K OHM	1/2W	5%	±100 ppm	5033EM91K00J	Tape & Reel
100 K OHM	1/2W	5%	±100 ppm	5033EM100K0J	Tape & Reel
110 K OHM	1/2W	5%	±200 ppm	5033EM110K0J	Tape & Reel
120 K OHM	1/2W	5%	±200 ppm	5033EM120K0J	Tape & Reel
130 K OHM	1/2W	5%	±200 ppm	5033EM130K0J	Tape & Reel
150 K OHM	1/2W	5%	±200 ppm	5033EM150K0J	Tape & Reel
160 K OHM	1/2W	5%	±200 ppm	5033EM160K0J	Tape & Reel
180 K OHM	1/2W	5%	±200 ppm	5033EM180K0J	Tape & Reel
200 K OHM	1/2W	5%	±200 ppm	5033EM200K0J	Tape & Reel
220 K OHM	1/2W	5%	±200 ppm	5033EM220K0J	Tape & Reel
240 K OHM	1/2W	5%	±200 ppm	5033EM240K0J	Tape & Reel
270 K OHM	1/2W	5%	±200 ppm	5033EM270K0J	Tape & Reel
300 K OHM	1/2W	5%	±200 ppm	5033EM300K0J	Tape & Reel
330 K OHM	1/2W	5%	±200 ppm	5033EM330K0J	Tape & Reel
360 K OHM	1/2W	5%	±200 ppm	5033EM360K0J	Tape & Reel
390 K OHM	1/2W	5%	±200 ppm	5033EM390K0J	Tape & Reel
430 K OHM	1/2W	5%	±200 ppm	5033EM430K0J	Tape & Reel
470 K OHM	1/2W	5%	±200 ppm	5033EM470K0J	Tape & Reel
510 K OHM	1/2W	5%	±200 ppm	5033EM510K0J	Tape & Reel
560 K OHM	1/2W	5%	±200 ppm	5033EM560K0J	Tape & Reel
620 K OHM	1/2W	5%	±200 ppm	5033EM620K0J	Tape & Reel
680 K OHM	1/2W	5%	±200 ppm	5033EM680K0J	Tape & Reel
750 K OHM	1/2W	5%	±200 ppm	5033EM750K0J	Tape & Reel
820 K OHM	1/2W	5%	±200 ppm	5033EM820K0J	Tape & Reel
910 K OHM	1/2W	5%	±200 ppm	5033EM910K0J	Tape & Reel
1 M OHM	1/2W	5%	±200 ppm	5033EM1M000J	Tape & Reel
1.1 M OHM	1/2W	5%	±200 ppm	5033EM1M100J	Tape & Reel
1.2 M OHM	1/2W	5%	±200 ppm	5033EM1M200J	Tape & Reel
1.3 M OHM	1/2W	5%	±200 ppm	5033EM1M300J	Tape & Reel
1.5 M OHM	1/2W	5%	±200 ppm	5033EM1M500J	Tape & Reel
1.6 M OHM	1/2W	5%	±200 ppm	5033EM1M600J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.8 M OHM	1/2W	5%	±200 ppm	5033EM1M800J	Tape & Reel
2 M OHM	1/2W	5%	±200 ppm	5033EM2M000J	Tape & Reel
2.2 M OHM	1/2W	5%	±200 ppm	5033EM2M200J	Tape & Reel
2.4 M OHM	1/2W	5%	±200 ppm	5033EM2M400J	Tape & Reel
2.7 M OHM	1/2W	5%	±200 ppm	5033EM2M700J	Tape & Reel
3 M OHM	1/2W	5%	±200 ppm	5033EM3M000J	Tape & Reel

Metal Film Axial Lead Resistor

Series 5033ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
10 OHM	1/2W	1%	±100 ppm	5033ED10R00F	Tape & Reel
10.2 OHM	1/2W	1%	±100 ppm	5033ED10R20F	Tape & Reel
10.5 OHM	1/2W	1%	±100 ppm	5033ED10R50F	Tape & Reel
10.7 OHM	1/2W	1%	±100 ppm	5033ED10R70F	Tape & Reel
11 OHM	1/2W	1%	±100 ppm	5033ED11R00F	Tape & Reel
11.3 OHM	1/2W	1%	±100 ppm	5033ED11R30F	Tape & Reel
11.5 OHM	1/2W	1%	±100 ppm	5033ED11R50F	Tape & Reel
11.8 OHM	1/2W	1%	±100 ppm	5033ED11R80F	Tape & Reel
12 OHM	1/2W	1%	±100 ppm	5033ED12R00F	Tape & Reel
12.1 OHM	1/2W	1%	±100 ppm	5033ED12R10F	Tape & Reel
12.4 OHM	1/2W	1%	±100 ppm	5033ED12R40F	Tape & Reel
12.7 OHM	1/2W	1%	±100 ppm	5033ED12R70F	Tape & Reel
13 OHM	1/2W	1%	±100 ppm	5033ED13R00F	Tape & Reel
13.3 OHM	1/2W	1%	±100 ppm	5033ED13R30F	Tape & Reel
13.7 OHM	1/2W	1%	±100 ppm	5033ED13R70F	Tape & Reel
14 OHM	1/2W	1%	±100 ppm	5033ED14R00F	Tape & Reel
14.3 OHM	1/2W	1%	±100 ppm	5033ED14R30F	Tape & Reel
14.7 OHM	1/2W	1%	±100 ppm	5033ED14R70F	Tape & Reel
15 OHM	1/2W	1%	±100 ppm	5033ED15R00F	Tape & Reel
15.4 OHM	1/2W	1%	±100 ppm	5033ED15R40F	Tape & Reel
15.8 OHM	1/2W	1%	±100 ppm	5033ED15R80F	Tape & Reel
16 OHM	1/2W	1%	±100 ppm	5033ED16R00F	Tape & Reel
16.2 OHM	1/2W	1%	±100 ppm	5033ED16R20F	Tape & Reel
16.5 OHM	1/2W	1%	±100 ppm	5033ED16R50F	Tape & Reel
16.9 OHM	1/2W	1%	±100 ppm	5033ED16R90F	Tape & Reel
17.4 OHM	1/2W	1%	±100 ppm	5033ED17R40F	Tape & Reel
17.8 OHM	1/2W	1%	±100 ppm	5033ED17R80F	Tape & Reel
18 OHM	1/2W	1%	±100 ppm	5033ED18R00F	Tape & Reel
18.2 OHM	1/2W	1%	±100 ppm	5033ED18R20F	Tape & Reel
18.7 OHM	1/2W	1%	±100 ppm	5033ED18R70F	Tape & Reel
19.1 OHM	1/2W	1%	±100 ppm	5033ED19R10F	Tape & Reel
19.6 OHM	1/2W	1%	±100 ppm	5033ED19R60F	Tape & Reel
20 OHM	1/2W	1%	±100 ppm	5033ED20R00F	Tape & Reel
20.5 OHM	1/2W	1%	±100 ppm	5033ED20R50F	Tape & Reel
21 OHM	1/2W	1%	±100 ppm	5033ED21R00F	Tape & Reel
21.5 OHM	1/2W	1%	±100 ppm	5033ED21R50F	Tape & Reel
22 OHM	1/2W	1%	±100 ppm	5033ED22R00F	Tape & Reel
22.1 OHM	1/2W	1%	±100 ppm	5033ED22R10F	Tape & Reel
22.6 OHM	1/2W	1%	±100 ppm	5033ED22R60F	Tape & Reel
23.2 OHM	1/2W	1%	±100 ppm	5033ED23R20F	Tape & Reel
23.7 OHM	1/2W	1%	±100 ppm	5033ED23R70F	Tape & Reel
24 OHM	1/2W	1%	±100 ppm	5033ED24R00F	Tape & Reel
24.3 OHM	1/2W	1%	±100 ppm	5033ED24R30F	Tape & Reel
24.9 OHM	1/2W	1%	±100 ppm	5033ED24R90F	Tape & Reel
25.5 OHM	1/2W	1%	±100 ppm	5033ED25R50F	Tape & Reel
26.1 OHM	1/2W	1%	±100 ppm	5033ED26R10F	Tape & Reel
26.7 OHM	1/2W	1%	±100 ppm	5033ED26R70F	Tape & Reel
27 OHM	1/2W	1%	±100 ppm	5033ED27R00F	Tape & Reel
27.4 OHM	1/2W	1%	±100 ppm	5033ED27R40F	Tape & Reel
28 OHM	1/2W	1%	±100 ppm	5033ED28R00F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
28.7 OHM	1/2W	1%	±100 ppm	5033ED28R70F	Tape & Reel
29.4 OHM	1/2W	1%	±100 ppm	5033ED29R40F	Tape & Reel
30 OHM	1/2W	1%	±100 ppm	5033ED30R00F	Tape & Reel
30.1 OHM	1/2W	1%	±100 ppm	5033ED30R10F	Tape & Reel
30.9 OHM	1/2W	1%	±100 ppm	5033ED30R90F	Tape & Reel
31.6 OHM	1/2W	1%	±100 ppm	5033ED31R60F	Tape & Reel
32.4 OHM	1/2W	1%	±100 ppm	5033ED32R40F	Tape & Reel
33 OHM	1/2W	1%	±100 ppm	5033ED33R00F	Tape & Reel
33.2 OHM	1/2W	1%	±100 ppm	5033ED33R20F	Tape & Reel
34 OHM	1/2W	1%	±100 ppm	5033ED34R00F	Tape & Reel
34.8 OHM	1/2W	1%	±100 ppm	5033ED34R80F	Tape & Reel
35.7 OHM	1/2W	1%	±100 ppm	5033ED35R70F	Tape & Reel
36 OHM	1/2W	1%	±100 ppm	5033ED36R00F	Tape & Reel
36.5 OHM	1/2W	1%	±100 ppm	5033ED36R50F	Tape & Reel
37.4 OHM	1/2W	1%	±100 ppm	5033ED37R40F	Tape & Reel
38.3 OHM	1/2W	1%	±100 ppm	5033ED38R30F	Tape & Reel
39 OHM	1/2W	1%	±100 ppm	5033ED39R00F	Tape & Reel
39.2 OHM	1/2W	1%	±100 ppm	5033ED39R20F	Tape & Reel
40.2 OHM	1/2W	1%	±100 ppm	5033ED40R20F	Tape & Reel
41.2 OHM	1/2W	1%	±100 ppm	5033ED41R20F	Tape & Reel
42.2 OHM	1/2W	1%	±100 ppm	5033ED42R20F	Tape & Reel
43 OHM	1/2W	1%	±100 ppm	5033ED43R00F	Tape & Reel
43.2 OHM	1/2W	1%	±100 ppm	5033ED43R20F	Tape & Reel
44.2 OHM	1/2W	1%	±100 ppm	5033ED44R20F	Tape & Reel
45.3 OHM	1/2W	1%	±100 ppm	5033ED45R30F	Tape & Reel
46.4 OHM	1/2W	1%	±100 ppm	5033ED46R40F	Tape & Reel
47 OHM	1/2W	1%	±100 ppm	5033ED47R00F	Tape & Reel
47.5 OHM	1/2W	1%	±100 ppm	5033ED47R50F	Tape & Reel
48.7 OHM	1/2W	1%	±100 ppm	5033ED48R70F	Tape & Reel
49.9 OHM	1/2W	1%	±100 ppm	5033ED49R90F	Tape & Reel
51 OHM	1/2W	1%	±100 ppm	5033ED51R00F	Tape & Reel
51.1 OHM	1/2W	1%	±100 ppm	5033ED51R10F	Tape & Reel
52.3 OHM	1/2W	1%	±100 ppm	5033ED52R30F	Tape & Reel
53.6 OHM	1/2W	1%	±100 ppm	5033ED53R60F	Tape & Reel
54.9 OHM	1/2W	1%	±100 ppm	5033ED54R90F	Tape & Reel
56 OHM	1/2W	1%	±100 ppm	5033ED56R00F	Tape & Reel
56.2 OHM	1/2W	1%	±100 ppm	5033ED56R20F	Tape & Reel
57.6 OHM	1/2W	1%	±100 ppm	5033ED57R60F	Tape & Reel
59 OHM	1/2W	1%	±100 ppm	5033ED59R00F	Tape & Reel
60.4 OHM	1/2W	1%	±100 ppm	5033ED60R40F	Tape & Reel
61.9 OHM	1/2W	1%	±100 ppm	5033ED61R90F	Tape & Reel
62 OHM	1/2W	1%	±100 ppm	5033ED62R00F	Tape & Reel
63.4 OHM	1/2W	1%	±100 ppm	5033ED63R40F	Tape & Reel
64.9 OHM	1/2W	1%	±100 ppm	5033ED64R90F	Tape & Reel
66.5 OHM	1/2W	1%	±100 ppm	5033ED66R50F	Tape & Reel
68 OHM	1/2W	1%	±100 ppm	5033ED68R00F	Tape & Reel
68.1 OHM	1/2W	1%	±100 ppm	5033ED68R10F	Tape & Reel
69.8 OHM	1/2W	1%	±100 ppm	5033ED69R80F	Tape & Reel
71.5 OHM	1/2W	1%	±100 ppm	5033ED71R50F	Tape & Reel
73.2 OHM	1/2W	1%	±100 ppm	5033ED73R20F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5033ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
75 OHM	1/2W	1%	±100 ppm	5033ED75R00F	Tape & Reel
76.8 OHM	1/2W	1%	±100 ppm	5033ED76R80F	Tape & Reel
78.7 OHM	1/2W	1%	±100 ppm	5033ED78R70F	Tape & Reel
80.6 OHM	1/2W	1%	±100 ppm	5033ED80R60F	Tape & Reel
82 OHM	1/2W	1%	±100 ppm	5033ED82R00F	Tape & Reel
82.5 OHM	1/2W	1%	±100 ppm	5033ED82R50F	Tape & Reel
84.5 OHM	1/2W	1%	±100 ppm	5033ED84R50F	Tape & Reel
86.6 OHM	1/2W	1%	±100 ppm	5033ED86R60F	Tape & Reel
88.7 OHM	1/2W	1%	±100 ppm	5033ED88R70F	Tape & Reel
90.9 OHM	1/2W	1%	±100 ppm	5033ED90R90F	Tape & Reel
91 OHM	1/2W	1%	±100 ppm	5033ED91R00F	Tape & Reel
93.1 OHM	1/2W	1%	±100 ppm	5033ED93R10F	Tape & Reel
95.3 OHM	1/2W	1%	±100 ppm	5033ED95R30F	Tape & Reel
97.6 OHM	1/2W	1%	±100 ppm	5033ED97R60F	Tape & Reel
100 OHM	1/2W	1%	±100 ppm	5033ED100R0F	Tape & Reel
102 OHM	1/2W	1%	±100 ppm	5033ED102R0F	Tape & Reel
105 OHM	1/2W	1%	±100 ppm	5033ED105R0F	Tape & Reel
107 OHM	1/2W	1%	±100 ppm	5033ED107R0F	Tape & Reel
110 OHM	1/2W	1%	±100 ppm	5033ED110R0F	Tape & Reel
113 OHM	1/2W	1%	±100 ppm	5033ED113R0F	Tape & Reel
115 OHM	1/2W	1%	±100 ppm	5033ED115R0F	Tape & Reel
118 OHM	1/2W	1%	±100 ppm	5033ED118R0F	Tape & Reel
120 OHM	1/2W	1%	±100 ppm	5033ED120R0F	Tape & Reel
121 OHM	1/2W	1%	±100 ppm	5033ED121R0F	Tape & Reel
124 OHM	1/2W	1%	±100 ppm	5033ED124R0F	Tape & Reel
127 OHM	1/2W	1%	±100 ppm	5033ED127R0F	Tape & Reel
130 OHM	1/2W	1%	±100 ppm	5033ED130R0F	Tape & Reel
133 OHM	1/2W	1%	±100 ppm	5033ED133R0F	Tape & Reel
137 OHM	1/2W	1%	±100 ppm	5033ED137R0F	Tape & Reel
140 OHM	1/2W	1%	±100 ppm	5033ED140R0F	Tape & Reel
143 OHM	1/2W	1%	±100 ppm	5033ED143R0F	Tape & Reel
147 OHM	1/2W	1%	±100 ppm	5033ED147R0F	Tape & Reel
150 OHM	1/2W	1%	±100 ppm	5033ED150R0F	Tape & Reel
154 OHM	1/2W	1%	±100 ppm	5033ED154R0F	Tape & Reel
158 OHM	1/2W	1%	±100 ppm	5033ED158R0F	Tape & Reel
160 OHM	1/2W	1%	±100 ppm	5033ED160R0F	Tape & Reel
162 OHM	1/2W	1%	±100 ppm	5033ED162R0F	Tape & Reel
165 OHM	1/2W	1%	±100 ppm	5033ED165R0F	Tape & Reel
169 OHM	1/2W	1%	±100 ppm	5033ED169R0F	Tape & Reel
174 OHM	1/2W	1%	±100 ppm	5033ED174R0F	Tape & Reel
178 OHM	1/2W	1%	±100 ppm	5033ED178R0F	Tape & Reel
180 OHM	1/2W	1%	±100 ppm	5033ED180R0F	Tape & Reel
182 OHM	1/2W	1%	±100 ppm	5033ED182R0F	Tape & Reel
187 OHM	1/2W	1%	±100 ppm	5033ED187R0F	Tape & Reel
191 OHM	1/2W	1%	±100 ppm	5033ED191R0F	Tape & Reel
196 OHM	1/2W	1%	±100 ppm	5033ED196R0F	Tape & Reel
200 OHM	1/2W	1%	±100 ppm	5033ED200R0F	Tape & Reel
205 OHM	1/2W	1%	±100 ppm	5033ED205R0F	Tape & Reel
210 OHM	1/2W	1%	±100 ppm	5033ED210R0F	Tape & Reel
215 OHM	1/2W	1%	±100 ppm	5033ED215R0F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
220 OHM	1/2W	1%	±100 ppm	5033ED220R0F	Tape & Reel
221 OHM	1/2W	1%	±100 ppm	5033ED221R0F	Tape & Reel
226 OHM	1/2W	1%	±100 ppm	5033ED226R0F	Tape & Reel
232 OHM	1/2W	1%	±100 ppm	5033ED232R0F	Tape & Reel
237 OHM	1/2W	1%	±100 ppm	5033ED237R0F	Tape & Reel
240 OHM	1/2W	1%	±100 ppm	5033ED240R0F	Tape & Reel
243 OHM	1/2W	1%	±100 ppm	5033ED243R0F	Tape & Reel
249 OHM	1/2W	1%	±100 ppm	5033ED249R0F	Tape & Reel
255 OHM	1/2W	1%	±100 ppm	5033ED255R0F	Tape & Reel
261 OHM	1/2W	1%	±100 ppm	5033ED261R0F	Tape & Reel
267 OHM	1/2W	1%	±100 ppm	5033ED267R0F	Tape & Reel
270 OHM	1/2W	1%	±100 ppm	5033ED270R0F	Tape & Reel
274 OHM	1/2W	1%	±100 ppm	5033ED274R0F	Tape & Reel
280 OHM	1/2W	1%	±100 ppm	5033ED280R0F	Tape & Reel
287 OHM	1/2W	1%	±100 ppm	5033ED287R0F	Tape & Reel
294 OHM	1/2W	1%	±100 ppm	5033ED294R0F	Tape & Reel
300 OHM	1/2W	1%	±100 ppm	5033ED300R0F	Tape & Reel
301 OHM	1/2W	1%	±100 ppm	5033ED301R0F	Tape & Reel
309 OHM	1/2W	1%	±100 ppm	5033ED309R0F	Tape & Reel
316 OHM	1/2W	1%	±100 ppm	5033ED316R0F	Tape & Reel
324 OHM	1/2W	1%	±100 ppm	5033ED324R0F	Tape & Reel
330 OHM	1/2W	1%	±100 ppm	5033ED330R0F	Tape & Reel
332 OHM	1/2W	1%	±100 ppm	5033ED332R0F	Tape & Reel
340 OHM	1/2W	1%	±100 ppm	5033ED340R0F	Tape & Reel
348 OHM	1/2W	1%	±100 ppm	5033ED348R0F	Tape & Reel
357 OHM	1/2W	1%	±100 ppm	5033ED357R0F	Tape & Reel
360 OHM	1/2W	1%	±100 ppm	5033ED360R0F	Tape & Reel
365 OHM	1/2W	1%	±100 ppm	5033ED365R0F	Tape & Reel
374 OHM	1/2W	1%	±100 ppm	5033ED374R0F	Tape & Reel
383 OHM	1/2W	1%	±100 ppm	5033ED383R0F	Tape & Reel
390 OHM	1/2W	1%	±100 ppm	5033ED390R0F	Tape & Reel
392 OHM	1/2W	1%	±100 ppm	5033ED392R0F	Tape & Reel
402 OHM	1/2W	1%	±100 ppm	5033ED402R0F	Tape & Reel
412 OHM	1/2W	1%	±100 ppm	5033ED412R0F	Tape & Reel
422 OHM	1/2W	1%	±100 ppm	5033ED422R0F	Tape & Reel
430 OHM	1/2W	1%	±100 ppm	5033ED430R0F	Tape & Reel
432 OHM	1/2W	1%	±100 ppm	5033ED432R0F	Tape & Reel
442 OHM	1/2W	1%	±100 ppm	5033ED442R0F	Tape & Reel
453 OHM	1/2W	1%	±100 ppm	5033ED453R0F	Tape & Reel
464 OHM	1/2W	1%	±100 ppm	5033ED464R0F	Tape & Reel
470 OHM	1/2W	1%	±100 ppm	5033ED470R0F	Tape & Reel
475 OHM	1/2W	1%	±100 ppm	5033ED475R0F	Tape & Reel
487 OHM	1/2W	1%	±100 ppm	5033ED487R0F	Tape & Reel
499 OHM	1/2W	1%	±100 ppm	5033ED499R0F	Tape & Reel
510 OHM	1/2W	1%	±100 ppm	5033ED510R0F	Tape & Reel
511 OHM	1/2W	1%	±100 ppm	5033ED511R0F	Tape & Reel
523 OHM	1/2W	1%	±100 ppm	5033ED523R0F	Tape & Reel
536 OHM	1/2W	1%	±100 ppm	5033ED536R0F	Tape & Reel
549 OHM	1/2W	1%	±100 ppm	5033ED549R0F	Tape & Reel
560 OHM	1/2W	1%	±100 ppm	5033ED560R0F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5033ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
562 OHM	1/2W	1%	±100 ppm	5033ED562R0F	Tape & Reel
576 OHM	1/2W	1%	±100 ppm	5033ED576R0F	Tape & Reel
590 OHM	1/2W	1%	±100 ppm	5033ED590R0F	Tape & Reel
604 OHM	1/2W	1%	±100 ppm	5033ED604R0F	Tape & Reel
619 OHM	1/2W	1%	±100 ppm	5033ED619R0F	Tape & Reel
620 OHM	1/2W	1%	±100 ppm	5033ED620R0F	Tape & Reel
634 OHM	1/2W	1%	±100 ppm	5033ED634R0F	Tape & Reel
649 OHM	1/2W	1%	±100 ppm	5033ED649R0F	Tape & Reel
665 OHM	1/2W	1%	±100 ppm	5033ED665R0F	Tape & Reel
680 OHM	1/2W	1%	±100 ppm	5033ED680R0F	Tape & Reel
681 OHM	1/2W	1%	±100 ppm	5033ED681R0F	Tape & Reel
698 OHM	1/2W	1%	±100 ppm	5033ED698R0F	Tape & Reel
715 OHM	1/2W	1%	±100 ppm	5033ED715R0F	Tape & Reel
732 OHM	1/2W	1%	±100 ppm	5033ED732R0F	Tape & Reel
750 OHM	1/2W	1%	±100 ppm	5033ED750R0F	Tape & Reel
768 OHM	1/2W	1%	±100 ppm	5033ED768R0F	Tape & Reel
787 OHM	1/2W	1%	±100 ppm	5033ED787R0F	Tape & Reel
806 OHM	1/2W	1%	±100 ppm	5033ED806R0F	Tape & Reel
820 OHM	1/2W	1%	±100 ppm	5033ED820R0F	Tape & Reel
825 OHM	1/2W	1%	±100 ppm	5033ED825R0F	Tape & Reel
845 OHM	1/2W	1%	±100 ppm	5033ED845R0F	Tape & Reel
866 OHM	1/2W	1%	±100 ppm	5033ED866R0F	Tape & Reel
887 OHM	1/2W	1%	±100 ppm	5033ED887R0F	Tape & Reel
909 OHM	1/2W	1%	±100 ppm	5033ED909R0F	Tape & Reel
910 OHM	1/2W	1%	±100 ppm	5033ED910R0F	Tape & Reel
931 OHM	1/2W	1%	±100 ppm	5033ED931R0F	Tape & Reel
953 OHM	1/2W	1%	±100 ppm	5033ED953R0F	Tape & Reel
976 OHM	1/2W	1%	±100 ppm	5033ED976R0F	Tape & Reel
1 K OHM	1/2W	1%	±100 ppm	5033ED1K000F	Tape & Reel
1.02 K OHM	1/2W	1%	±100 ppm	5033ED1K020F	Tape & Reel
1.05 K OHM	1/2W	1%	±100 ppm	5033ED1K050F	Tape & Reel
1.07 K OHM	1/2W	1%	±100 ppm	5033ED1K070F	Tape & Reel
1.1 K OHM	1/2W	1%	±100 ppm	5033ED1K100F	Tape & Reel
1.13 K OHM	1/2W	1%	±100 ppm	5033ED1K130F	Tape & Reel
1.15 K OHM	1/2W	1%	±100 ppm	5033ED1K150F	Tape & Reel
1.18 K OHM	1/2W	1%	±100 ppm	5033ED1K180F	Tape & Reel
1.2 K OHM	1/2W	1%	±100 ppm	5033ED1K200F	Tape & Reel
1.21 K OHM	1/2W	1%	±100 ppm	5033ED1K210F	Tape & Reel
1.24 K OHM	1/2W	1%	±100 ppm	5033ED1K240F	Tape & Reel
1.27 K OHM	1/2W	1%	±100 ppm	5033ED1K270F	Tape & Reel
1.3 K OHM	1/2W	1%	±100 ppm	5033ED1K300F	Tape & Reel
1.33 K OHM	1/2W	1%	±100 ppm	5033ED1K330F	Tape & Reel
1.37 K OHM	1/2W	1%	±100 ppm	5033ED1K370F	Tape & Reel
1.4 K OHM	1/2W	1%	±100 ppm	5033ED1K400F	Tape & Reel
1.43 K OHM	1/2W	1%	±100 ppm	5033ED1K430F	Tape & Reel
1.47 K OHM	1/2W	1%	±100 ppm	5033ED1K470F	Tape & Reel
1.5 K OHM	1/2W	1%	±100 ppm	5033ED1K500F	Tape & Reel
1.54 K OHM	1/2W	1%	±100 ppm	5033ED1K540F	Tape & Reel
1.58 K OHM	1/2W	1%	±100 ppm	5033ED1K580F	Tape & Reel
1.6 K OHM	1/2W	1%	±100 ppm	5033ED1K600F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.62 K OHM	1/2W	1%	±100 ppm	5033ED1K620F	Tape & Reel
1.65 K OHM	1/2W	1%	±100 ppm	5033ED1K650F	Tape & Reel
1.69 K OHM	1/2W	1%	±100 ppm	5033ED1K690F	Tape & Reel
1.74 K OHM	1/2W	1%	±100 ppm	5033ED1K740F	Tape & Reel
1.78 K OHM	1/2W	1%	±100 ppm	5033ED1K780F	Tape & Reel
1.8 K OHM	1/2W	1%	±100 ppm	5033ED1K800F	Tape & Reel
1.82 K OHM	1/2W	1%	±100 ppm	5033ED1K820F	Tape & Reel
1.87 K OHM	1/2W	1%	±100 ppm	5033ED1K870F	Tape & Reel
1.91 K OHM	1/2W	1%	±100 ppm	5033ED1K910F	Tape & Reel
1.96 K OHM	1/2W	1%	±100 ppm	5033ED1K960F	Tape & Reel
2 K OHM	1/2W	1%	±100 ppm	5033ED2K000F	Tape & Reel
2.05 K OHM	1/2W	1%	±100 ppm	5033ED2K050F	Tape & Reel
2.1 K OHM	1/2W	1%	±100 ppm	5033ED2K100F	Tape & Reel
2.15 K OHM	1/2W	1%	±100 ppm	5033ED2K150F	Tape & Reel
2.2 K OHM	1/2W	1%	±100 ppm	5033ED2K200F	Tape & Reel
2.21 K OHM	1/2W	1%	±100 ppm	5033ED2K210F	Tape & Reel
2.26 K OHM	1/2W	1%	±100 ppm	5033ED2K260F	Tape & Reel
2.32 K OHM	1/2W	1%	±100 ppm	5033ED2K320F	Tape & Reel
2.37 K OHM	1/2W	1%	±100 ppm	5033ED2K370F	Tape & Reel
2.4 K OHM	1/2W	1%	±100 ppm	5033ED2K400F	Tape & Reel
2.43 K OHM	1/2W	1%	±100 ppm	5033ED2K430F	Tape & Reel
2.49 K OHM	1/2W	1%	±100 ppm	5033ED2K490F	Tape & Reel
2.55 K OHM	1/2W	1%	±100 ppm	5033ED2K550F	Tape & Reel
2.61 K OHM	1/2W	1%	±100 ppm	5033ED2K610F	Tape & Reel
2.67 K OHM	1/2W	1%	±100 ppm	5033ED2K670F	Tape & Reel
2.7 K OHM	1/2W	1%	±100 ppm	5033ED2K700F	Tape & Reel
2.74 K OHM	1/2W	1%	±100 ppm	5033ED2K740F	Tape & Reel
2.8 K OHM	1/2W	1%	±100 ppm	5033ED2K800F	Tape & Reel
2.87 K OHM	1/2W	1%	±100 ppm	5033ED2K870F	Tape & Reel
2.94 K OHM	1/2W	1%	±100 ppm	5033ED2K940F	Tape & Reel
3 K OHM	1/2W	1%	±100 ppm	5033ED3K000F	Tape & Reel
3.01 K OHM	1/2W	1%	±100 ppm	5033ED3K010F	Tape & Reel
3.09 K OHM	1/2W	1%	±100 ppm	5033ED3K090F	Tape & Reel
3.16 K OHM	1/2W	1%	±100 ppm	5033ED3K160F	Tape & Reel
3.24 K OHM	1/2W	1%	±100 ppm	5033ED3K240F	Tape & Reel
3.3 K OHM	1/2W	1%	±100 ppm	5033ED3K300F	Tape & Reel
3.32 K OHM	1/2W	1%	±100 ppm	5033ED3K320F	Tape & Reel
3.4 K OHM	1/2W	1%	±100 ppm	5033ED3K400F	Tape & Reel
3.48 K OHM	1/2W	1%	±100 ppm	5033ED3K480F	Tape & Reel
3.57 K OHM	1/2W	1%	±100 ppm	5033ED3K570F	Tape & Reel
3.6 K OHM	1/2W	1%	±100 ppm	5033ED3K600F	Tape & Reel
3.65 K OHM	1/2W	1%	±100 ppm	5033ED3K650F	Tape & Reel
3.74 K OHM	1/2W	1%	±100 ppm	5033ED3K740F	Tape & Reel
3.83 K OHM	1/2W	1%	±100 ppm	5033ED3K830F	Tape & Reel
3.9 K OHM	1/2W	1%	±100 ppm	5033ED3K900F	Tape & Reel
3.92 K OHM	1/2W	1%	±100 ppm	5033ED3K920F	Tape & Reel
4.02 K OHM	1/2W	1%	±100 ppm	5033ED4K020F	Tape & Reel
4.12 K OHM	1/2W	1%	±100 ppm	5033ED4K120F	Tape & Reel
4.22 K OHM	1/2W	1%	±100 ppm	5033ED4K220F	Tape & Reel
4.3 K OHM	1/2W	1%	±100 ppm	5033ED4K300F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5033ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
4.32 K OHM	1/2W	1%	±100 ppm	5033ED4K320F	Tape & Reel
4.42 K OHM	1/2W	1%	±100 ppm	5033ED4K420F	Tape & Reel
4.53 K OHM	1/2W	1%	±100 ppm	5033ED4K530F	Tape & Reel
4.64 K OHM	1/2W	1%	±100 ppm	5033ED4K640F	Tape & Reel
4.7 K OHM	1/2W	1%	±100 ppm	5033ED4K700F	Tape & Reel
4.75 K OHM	1/2W	1%	±100 ppm	5033ED4K750F	Tape & Reel
4.87 K OHM	1/2W	1%	±100 ppm	5033ED4K870F	Tape & Reel
4.99 K OHM	1/2W	1%	±100 ppm	5033ED4K990F	Tape & Reel
5.1 K OHM	1/2W	1%	±100 ppm	5033ED5K100F	Tape & Reel
5.11 K OHM	1/2W	1%	±100 ppm	5033ED5K110F	Tape & Reel
5.23 K OHM	1/2W	1%	±100 ppm	5033ED5K230F	Tape & Reel
5.36 K OHM	1/2W	1%	±100 ppm	5033ED5K360F	Tape & Reel
5.49 K OHM	1/2W	1%	±100 ppm	5033ED5K490F	Tape & Reel
5.6 K OHM	1/2W	1%	±100 ppm	5033ED5K600F	Tape & Reel
5.62 K OHM	1/2W	1%	±100 ppm	5033ED5K620F	Tape & Reel
5.76 K OHM	1/2W	1%	±100 ppm	5033ED5K760F	Tape & Reel
5.9 K OHM	1/2W	1%	±100 ppm	5033ED5K900F	Tape & Reel
6.04 K OHM	1/2W	1%	±100 ppm	5033ED6K040F	Tape & Reel
6.19 K OHM	1/2W	1%	±100 ppm	5033ED6K190F	Tape & Reel
6.2 K OHM	1/2W	1%	±100 ppm	5033ED6K200F	Tape & Reel
6.34 K OHM	1/2W	1%	±100 ppm	5033ED6K340F	Tape & Reel
6.49 K OHM	1/2W	1%	±100 ppm	5033ED6K490F	Tape & Reel
6.65 K OHM	1/2W	1%	±100 ppm	5033ED6K650F	Tape & Reel
6.8 K OHM	1/2W	1%	±100 ppm	5033ED6K800F	Tape & Reel
6.81 K OHM	1/2W	1%	±100 ppm	5033ED6K810F	Tape & Reel
6.98 K OHM	1/2W	1%	±100 ppm	5033ED6K980F	Tape & Reel
7.15 K OHM	1/2W	1%	±100 ppm	5033ED7K150F	Tape & Reel
7.32 K OHM	1/2W	1%	±100 ppm	5033ED7K320F	Tape & Reel
7.5 K OHM	1/2W	1%	±100 ppm	5033ED7K500F	Tape & Reel
7.68 K OHM	1/2W	1%	±100 ppm	5033ED7K680F	Tape & Reel
7.87 K OHM	1/2W	1%	±100 ppm	5033ED7K870F	Tape & Reel
8.06 K OHM	1/2W	1%	±100 ppm	5033ED8K060F	Tape & Reel
8.2 K OHM	1/2W	1%	±100 ppm	5033ED8K200F	Tape & Reel
8.25 K OHM	1/2W	1%	±100 ppm	5033ED8K250F	Tape & Reel
8.45 K OHM	1/2W	1%	±100 ppm	5033ED8K450F	Tape & Reel
8.66 K OHM	1/2W	1%	±100 ppm	5033ED8K660F	Tape & Reel
8.87 K OHM	1/2W	1%	±100 ppm	5033ED8K870F	Tape & Reel
9.09 K OHM	1/2W	1%	±100 ppm	5033ED9K090F	Tape & Reel
9.1 K OHM	1/2W	1%	±100 ppm	5033ED9K100F	Tape & Reel
9.31 K OHM	1/2W	1%	±100 ppm	5033ED9K310F	Tape & Reel
9.53 K OHM	1/2W	1%	±100 ppm	5033ED9K530F	Tape & Reel
9.76 K OHM	1/2W	1%	±100 ppm	5033ED9K760F	Tape & Reel
10 K OHM	1/2W	1%	±100 ppm	5033ED10K00F	Tape & Reel
10.2 K OHM	1/2W	1%	±100 ppm	5033ED10K20F	Tape & Reel
10.5 K OHM	1/2W	1%	±100 ppm	5033ED10K50F	Tape & Reel
10.7 K OHM	1/2W	1%	±100 ppm	5033ED10K70F	Tape & Reel
11 K OHM	1/2W	1%	±100 ppm	5033ED11K00F	Tape & Reel
11.3 K OHM	1/2W	1%	±100 ppm	5033ED11K30F	Tape & Reel
11.5 K OHM	1/2W	1%	±100 ppm	5033ED11K50F	Tape & Reel
11.8 K OHM	1/2W	1%	±100 ppm	5033ED11K80F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
12 K OHM	1/2W	1%	±100 ppm	5033ED12K00F	Tape & Reel
12.1 K OHM	1/2W	1%	±100 ppm	5033ED12K10F	Tape & Reel
12.4 K OHM	1/2W	1%	±100 ppm	5033ED12K40F	Tape & Reel
12.7 K OHM	1/2W	1%	±100 ppm	5033ED12K70F	Tape & Reel
13 K OHM	1/2W	1%	±100 ppm	5033ED13K00F	Tape & Reel
13.3 K OHM	1/2W	1%	±100 ppm	5033ED13K30F	Tape & Reel
13.7 K OHM	1/2W	1%	±100 ppm	5033ED13K70F	Tape & Reel
14 K OHM	1/2W	1%	±100 ppm	5033ED14K00F	Tape & Reel
14.3 K OHM	1/2W	1%	±100 ppm	5033ED14K30F	Tape & Reel
14.7 K OHM	1/2W	1%	±100 ppm	5033ED14K70F	Tape & Reel
15 K OHM	1/2W	1%	±100 ppm	5033ED15K00F	Tape & Reel
15.4 K OHM	1/2W	1%	±100 ppm	5033ED15K40F	Tape & Reel
15.8 K OHM	1/2W	1%	±100 ppm	5033ED15K80F	Tape & Reel
16 K OHM	1/2W	1%	±100 ppm	5033ED16K00F	Tape & Reel
16.2 K OHM	1/2W	1%	±100 ppm	5033ED16K20F	Tape & Reel
16.5 K OHM	1/2W	1%	±100 ppm	5033ED16K50F	Tape & Reel
16.9 K OHM	1/2W	1%	±100 ppm	5033ED16K90F	Tape & Reel
17.4 K OHM	1/2W	1%	±100 ppm	5033ED17K40F	Tape & Reel
17.8 K OHM	1/2W	1%	±100 ppm	5033ED17K80F	Tape & Reel
18 K OHM	1/2W	1%	±100 ppm	5033ED18K00F	Tape & Reel
18.2 K OHM	1/2W	1%	±100 ppm	5033ED18K20F	Tape & Reel
18.7 K OHM	1/2W	1%	±100 ppm	5033ED18K70F	Tape & Reel
19.1 K OHM	1/2W	1%	±100 ppm	5033ED19K10F	Tape & Reel
19.6 K OHM	1/2W	1%	±100 ppm	5033ED19K60F	Tape & Reel
20 K OHM	1/2W	1%	±100 ppm	5033ED20K00F	Tape & Reel
20.5 K OHM	1/2W	1%	±100 ppm	5033ED20K50F	Tape & Reel
21 K OHM	1/2W	1%	±100 ppm	5033ED21K00F	Tape & Reel
21.5 K OHM	1/2W	1%	±100 ppm	5033ED21K50F	Tape & Reel
22 K OHM	1/2W	1%	±100 ppm	5033ED22K00F	Tape & Reel
22.1 K OHM	1/2W	1%	±100 ppm	5033ED22K10F	Tape & Reel
22.6 K OHM	1/2W	1%	±100 ppm	5033ED22K60F	Tape & Reel
23.2 K OHM	1/2W	1%	±100 ppm	5033ED23K20F	Tape & Reel
23.7 K OHM	1/2W	1%	±100 ppm	5033ED23K70F	Tape & Reel
24 K OHM	1/2W	1%	±100 ppm	5033ED24K00F	Tape & Reel
24.3 K OHM	1/2W	1%	±100 ppm	5033ED24K30F	Tape & Reel
24.9 K OHM	1/2W	1%	±100 ppm	5033ED24K90F	Tape & Reel
25.5 K OHM	1/2W	1%	±100 ppm	5033ED25K50F	Tape & Reel
26.1 K OHM	1/2W	1%	±100 ppm	5033ED26K10F	Tape & Reel
26.7 K OHM	1/2W	1%	±100 ppm	5033ED26K70F	Tape & Reel
27 K OHM	1/2W	1%	±100 ppm	5033ED27K00F	Tape & Reel
27.4 K OHM	1/2W	1%	±100 ppm	5033ED27K40F	Tape & Reel
28 K OHM	1/2W	1%	±100 ppm	5033ED28K00F	Tape & Reel
28.7 K OHM	1/2W	1%	±100 ppm	5033ED28K70F	Tape & Reel
29.4 K OHM	1/2W	1%	±100 ppm	5033ED29K40F	Tape & Reel
30 K OHM	1/2W	1%	±100 ppm	5033ED30K00F	Tape & Reel
30.1 K OHM	1/2W	1%	±100 ppm	5033ED30K10F	Tape & Reel
30.9 K OHM	1/2W	1%	±100 ppm	5033ED30K90F	Tape & Reel
31.6 K OHM	1/2W	1%	±100 ppm	5033ED31K60F	Tape & Reel
32.4 K OHM	1/2W	1%	±100 ppm	5033ED32K40F	Tape & Reel
33 K OHM	1/2W	1%	±100 ppm	5033ED33K00F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5033ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
33.2 K OHM	1/2W	1%	±100 ppm	5033ED33K20F	Tape & Reel
34 K OHM	1/2W	1%	±100 ppm	5033ED34K00F	Tape & Reel
34.8 K OHM	1/2W	1%	±100 ppm	5033ED34K80F	Tape & Reel
35.7 K OHM	1/2W	1%	±100 ppm	5033ED35K70F	Tape & Reel
36 K OHM	1/2W	1%	±100 ppm	5033ED36K00F	Tape & Reel
36.5 K OHM	1/2W	1%	±100 ppm	5033ED36K50F	Tape & Reel
37.4 K OHM	1/2W	1%	±100 ppm	5033ED37K40F	Tape & Reel
38.3 K OHM	1/2W	1%	±100 ppm	5033ED38K30F	Tape & Reel
39 K OHM	1/2W	1%	±100 ppm	5033ED39K00F	Tape & Reel
39.2 K OHM	1/2W	1%	±100 ppm	5033ED39K20F	Tape & Reel
40.2 K OHM	1/2W	1%	±100 ppm	5033ED40K20F	Tape & Reel
41.2 K OHM	1/2W	1%	±100 ppm	5033ED41K20F	Tape & Reel
42.2 K OHM	1/2W	1%	±100 ppm	5033ED42K20F	Tape & Reel
43 K OHM	1/2W	1%	±100 ppm	5033ED43K00F	Tape & Reel
43.2 K OHM	1/2W	1%	±100 ppm	5033ED43K20F	Tape & Reel
44.2 K OHM	1/2W	1%	±100 ppm	5033ED44K20F	Tape & Reel
45.3 K OHM	1/2W	1%	±100 ppm	5033ED45K30F	Tape & Reel
46.4 K OHM	1/2W	1%	±100 ppm	5033ED46K40F	Tape & Reel
47 K OHM	1/2W	1%	±100 ppm	5033ED47K00F	Tape & Reel
47.5 K OHM	1/2W	1%	±100 ppm	5033ED47K50F	Tape & Reel
48.7 K OHM	1/2W	1%	±100 ppm	5033ED48K70F	Tape & Reel
49.9 K OHM	1/2W	1%	±100 ppm	5033ED49K90F	Tape & Reel
51 K OHM	1/2W	1%	±100 ppm	5033ED51K00F	Tape & Reel
51.1 K OHM	1/2W	1%	±100 ppm	5033ED51K10F	Tape & Reel
52.3 K OHM	1/2W	1%	±100 ppm	5033ED52K30F	Tape & Reel
53.6 K OHM	1/2W	1%	±100 ppm	5033ED53K60F	Tape & Reel
54.9 K OHM	1/2W	1%	±100 ppm	5033ED54K90F	Tape & Reel
56 K OHM	1/2W	1%	±100 ppm	5033ED56K00F	Tape & Reel
56.2 K OHM	1/2W	1%	±100 ppm	5033ED56K20F	Tape & Reel
57.6 K OHM	1/2W	1%	±100 ppm	5033ED57K60F	Tape & Reel
59 K OHM	1/2W	1%	±100 ppm	5033ED59K00F	Tape & Reel
60.4 K OHM	1/2W	1%	±100 ppm	5033ED60K40F	Tape & Reel
61.9 K OHM	1/2W	1%	±100 ppm	5033ED61K90F	Tape & Reel
62 K OHM	1/2W	1%	±100 ppm	5033ED62K00F	Tape & Reel
63.4 K OHM	1/2W	1%	±100 ppm	5033ED63K40F	Tape & Reel
64.9 K OHM	1/2W	1%	±100 ppm	5033ED64K90F	Tape & Reel
66.5 K OHM	1/2W	1%	±100 ppm	5033ED66K50F	Tape & Reel
68 K OHM	1/2W	1%	±100 ppm	5033ED68K00F	Tape & Reel
68.1 K OHM	1/2W	1%	±100 ppm	5033ED68K10F	Tape & Reel
69.8 K OHM	1/2W	1%	±100 ppm	5033ED69K80F	Tape & Reel
71.5 K OHM	1/2W	1%	±100 ppm	5033ED71K50F	Tape & Reel
73.2 K OHM	1/2W	1%	±100 ppm	5033ED73K20F	Tape & Reel
75 K OHM	1/2W	1%	±100 ppm	5033ED75K00F	Tape & Reel
76.8 K OHM	1/2W	1%	±100 ppm	5033ED76K80F	Tape & Reel
78.7 K OHM	1/2W	1%	±100 ppm	5033ED78K70F	Tape & Reel
80.6 K OHM	1/2W	1%	±100 ppm	5033ED80K60F	Tape & Reel
82 K OHM	1/2W	1%	±100 ppm	5033ED82K00F	Tape & Reel
82.5 K OHM	1/2W	1%	±100 ppm	5033ED82K50F	Tape & Reel
84.5 K OHM	1/2W	1%	±100 ppm	5033ED84K50F	Tape & Reel
86.6 K OHM	1/2W	1%	±100 ppm	5033ED86K60F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
88.7 K OHM	1/2W	1%	±100 ppm	5033ED88K70F	Tape & Reel
90.9 K OHM	1/2W	1%	±100 ppm	5033ED90K90F	Tape & Reel
91 K OHM	1/2W	1%	±100 ppm	5033ED91K00F	Tape & Reel
93.1 K OHM	1/2W	1%	±100 ppm	5033ED93K10F	Tape & Reel
95.3 K OHM	1/2W	1%	±100 ppm	5033ED95K30F	Tape & Reel
97.6 K OHM	1/2W	1%	±100 ppm	5033ED97K60F	Tape & Reel
100 K OHM	1/2W	1%	±100 ppm	5033ED100K0F	Tape & Reel
102 K OHM	1/2W	1%	±100 ppm	5033ED102K0F	Tape & Reel
105 K OHM	1/2W	1%	±100 ppm	5033ED105K0F	Tape & Reel
107 K OHM	1/2W	1%	±100 ppm	5033ED107K0F	Tape & Reel
110 K OHM	1/2W	1%	±100 ppm	5033ED110K0F	Tape & Reel
113 K OHM	1/2W	1%	±100 ppm	5033ED113K0F	Tape & Reel
115 K OHM	1/2W	1%	±100 ppm	5033ED115K0F	Tape & Reel
118 K OHM	1/2W	1%	±100 ppm	5033ED118K0F	Tape & Reel
120 K OHM	1/2W	1%	±100 ppm	5033ED120K0F	Tape & Reel
121 K OHM	1/2W	1%	±100 ppm	5033ED121K0F	Tape & Reel
124 K OHM	1/2W	1%	±100 ppm	5033ED124K0F	Tape & Reel
127 K OHM	1/2W	1%	±100 ppm	5033ED127K0F	Tape & Reel
130 K OHM	1/2W	1%	±100 ppm	5033ED130K0F	Tape & Reel
133 K OHM	1/2W	1%	±100 ppm	5033ED133K0F	Tape & Reel
137 K OHM	1/2W	1%	±100 ppm	5033ED137K0F	Tape & Reel
140 K OHM	1/2W	1%	±100 ppm	5033ED140K0F	Tape & Reel
143 K OHM	1/2W	1%	±100 ppm	5033ED143K0F	Tape & Reel
147 K OHM	1/2W	1%	±100 ppm	5033ED147K0F	Tape & Reel
150 K OHM	1/2W	1%	±100 ppm	5033ED150K0F	Tape & Reel
154 K OHM	1/2W	1%	±100 ppm	5033ED154K0F	Tape & Reel
158 K OHM	1/2W	1%	±100 ppm	5033ED158K0F	Tape & Reel
160 K OHM	1/2W	1%	±100 ppm	5033ED160K0F	Tape & Reel
162 K OHM	1/2W	1%	±100 ppm	5033ED162K0F	Tape & Reel
165 K OHM	1/2W	1%	±100 ppm	5033ED165K0F	Tape & Reel
169 K OHM	1/2W	1%	±100 ppm	5033ED169K0F	Tape & Reel
174 K OHM	1/2W	1%	±100 ppm	5033ED174K0F	Tape & Reel
178 K OHM	1/2W	1%	±100 ppm	5033ED178K0F	Tape & Reel
180 K OHM	1/2W	1%	±100 ppm	5033ED180K0F	Tape & Reel
182 K OHM	1/2W	1%	±100 ppm	5033ED182K0F	Tape & Reel
187 K OHM	1/2W	1%	±100 ppm	5033ED187K0F	Tape & Reel
191 K OHM	1/2W	1%	±100 ppm	5033ED191K0F	Tape & Reel
196 K OHM	1/2W	1%	±100 ppm	5033ED196K0F	Tape & Reel
200 K OHM	1/2W	1%	±100 ppm	5033ED200K0F	Tape & Reel
205 K OHM	1/2W	1%	±100 ppm	5033ED205K0F	Tape & Reel
210 K OHM	1/2W	1%	±100 ppm	5033ED210K0F	Tape & Reel
215 K OHM	1/2W	1%	±100 ppm	5033ED215K0F	Tape & Reel
220 K OHM	1/2W	1%	±100 ppm	5033ED220K0F	Tape & Reel
221 K OHM	1/2W	1%	±100 ppm	5033ED221K0F	Tape & Reel
226 K OHM	1/2W	1%	±100 ppm	5033ED226K0F	Tape & Reel
232 K OHM	1/2W	1%	±100 ppm	5033ED232K0F	Tape & Reel
237 K OHM	1/2W	1%	±100 ppm	5033ED237K0F	Tape & Reel
240 K OHM	1/2W	1%	±100 ppm	5033ED240K0F	Tape & Reel
243 K OHM	1/2W	1%	±100 ppm	5033ED243K0F	Tape & Reel
249 K OHM	1/2W	1%	±100 ppm	5033ED249K0F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5033ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
255 K OHM	1/2W	1%	±100 ppm	5033ED255K0F	Tape & Reel
261 K OHM	1/2W	1%	±100 ppm	5033ED261K0F	Tape & Reel
267 K OHM	1/2W	1%	±100 ppm	5033ED267K0F	Tape & Reel
270 K OHM	1/2W	1%	±100 ppm	5033ED270K0F	Tape & Reel
274 K OHM	1/2W	1%	±100 ppm	5033ED274K0F	Tape & Reel
280 K OHM	1/2W	1%	±100 ppm	5033ED280K0F	Tape & Reel
287 K OHM	1/2W	1%	±100 ppm	5033ED287K0F	Tape & Reel
294 K OHM	1/2W	1%	±100 ppm	5033ED294K0F	Tape & Reel
300 K OHM	1/2W	1%	±100 ppm	5033ED300K0F	Tape & Reel
301 K OHM	1/2W	1%	±100 ppm	5033ED301K0F	Tape & Reel
309 K OHM	1/2W	1%	±100 ppm	5033ED309K0F	Tape & Reel
316 K OHM	1/2W	1%	±100 ppm	5033ED316K0F	Tape & Reel
324 K OHM	1/2W	1%	±100 ppm	5033ED324K0F	Tape & Reel
330 K OHM	1/2W	1%	±100 ppm	5033ED330K0F	Tape & Reel
332 K OHM	1/2W	1%	±100 ppm	5033ED332K0F	Tape & Reel
340 K OHM	1/2W	1%	±100 ppm	5033ED340K0F	Tape & Reel
348 K OHM	1/2W	1%	±100 ppm	5033ED348K0F	Tape & Reel
357 K OHM	1/2W	1%	±100 ppm	5033ED357K0F	Tape & Reel
360 K OHM	1/2W	1%	±100 ppm	5033ED360K0F	Tape & Reel
365 K OHM	1/2W	1%	±100 ppm	5033ED365K0F	Tape & Reel
374 K OHM	1/2W	1%	±100 ppm	5033ED374K0F	Tape & Reel
383 K OHM	1/2W	1%	±100 ppm	5033ED383K0F	Tape & Reel
390 K OHM	1/2W	1%	±100 ppm	5033ED390K0F	Tape & Reel
392 K OHM	1/2W	1%	±100 ppm	5033ED392K0F	Tape & Reel
402 K OHM	1/2W	1%	±100 ppm	5033ED402K0F	Tape & Reel
412 K OHM	1/2W	1%	±100 ppm	5033ED412K0F	Tape & Reel
422 K OHM	1/2W	1%	±100 ppm	5033ED422K0F	Tape & Reel
430 K OHM	1/2W	1%	±100 ppm	5033ED430K0F	Tape & Reel
432 K OHM	1/2W	1%	±100 ppm	5033ED432K0F	Tape & Reel
442 K OHM	1/2W	1%	±100 ppm	5033ED442K0F	Tape & Reel
453 K OHM	1/2W	1%	±100 ppm	5033ED453K0F	Tape & Reel
464 K OHM	1/2W	1%	±100 ppm	5033ED464K0F	Tape & Reel
470 K OHM	1/2W	1%	±100 ppm	5033ED470K0F	Tape & Reel
475 K OHM	1/2W	1%	±100 ppm	5033ED475K0F	Tape & Reel
487 K OHM	1/2W	1%	±100 ppm	5033ED487K0F	Tape & Reel
499 K OHM	1/2W	1%	±100 ppm	5033ED499K0F	Tape & Reel
510 K OHM	1/2W	1%	±100 ppm	5033ED510K0F	Tape & Reel
511 K OHM	1/2W	1%	±100 ppm	5033ED511K0F	Tape & Reel
523 K OHM	1/2W	1%	±100 ppm	5033ED523K0F	Tape & Reel
536 K OHM	1/2W	1%	±100 ppm	5033ED536K0F	Tape & Reel
549 K OHM	1/2W	1%	±100 ppm	5033ED549K0F	Tape & Reel
560 K OHM	1/2W	1%	±100 ppm	5033ED560K0F	Tape & Reel
562 K OHM	1/2W	1%	±100 ppm	5033ED562K0F	Tape & Reel
576 K OHM	1/2W	1%	±100 ppm	5033ED576K0F	Tape & Reel
590 K OHM	1/2W	1%	±100 ppm	5033ED590K0F	Tape & Reel
604 K OHM	1/2W	1%	±100 ppm	5033ED604K0F	Tape & Reel
619 K OHM	1/2W	1%	±100 ppm	5033ED619K0F	Tape & Reel
620 K OHM	1/2W	1%	±100 ppm	5033ED620K0F	Tape & Reel
634 K OHM	1/2W	1%	±100 ppm	5033ED634K0F	Tape & Reel
649 K OHM	1/2W	1%	±100 ppm	5033ED649K0F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
665 K OHM	1/2W	1%	± 100 ppm	5033ED665K0F	Tape & Reel
680 K OHM	1/2W	1%	± 100 ppm	5033ED680K0F	Tape & Reel
681 K OHM	1/2W	1%	± 100 ppm	5033ED681K0F	Tape & Reel
698 K OHM	1/2W	1%	± 100 ppm	5033ED698K0F	Tape & Reel
715 K OHM	1/2W	1%	± 100 ppm	5033ED715K0F	Tape & Reel
732 K OHM	1/2W	1%	± 100 ppm	5033ED732K0F	Tape & Reel
750 K OHM	1/2W	1%	± 100 ppm	5033ED750K0F	Tape & Reel
768 K OHM	1/2W	1%	± 100 ppm	5033ED768K0F	Tape & Reel
787 K OHM	1/2W	1%	± 100 ppm	5033ED787K0F	Tape & Reel
806 K OHM	1/2W	1%	± 100 ppm	5033ED806K0F	Tape & Reel
820 K OHM	1/2W	1%	± 100 ppm	5033ED820K0F	Tape & Reel
825 K OHM	1/2W	1%	± 100 ppm	5033ED825K0F	Tape & Reel
845 K OHM	1/2W	1%	± 100 ppm	5033ED845K0F	Tape & Reel
866 K OHM	1/2W	1%	± 100 ppm	5033ED866K0F	Tape & Reel
887 K OHM	1/2W	1%	± 100 ppm	5033ED887K0F	Tape & Reel
909 K OHM	1/2W	1%	± 100 ppm	5033ED909K0F	Tape & Reel
910 K OHM	1/2W	1%	± 100 ppm	5033ED910K0F	Tape & Reel
931 K OHM	1/2W	1%	± 100 ppm	5033ED931K0F	Tape & Reel
953 K OHM	1/2W	1%	± 100 ppm	5033ED953K0F	Tape & Reel
976 K OHM	1/2W	1%	± 100 ppm	5033ED976K0F	Tape & Reel
1 M OHM	1/2W	1%	± 100 ppm	5033ED1M000F	Tape & Reel

Metal Film Axial Lead Resistor

Series 5043EM

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.0 OHM	1/4W	5%	±100 ppm	5043EM1R000J	Tape & Reel
1.1 OHM	1/4W	5%	±100 ppm	5043EM1R100J	Tape & Reel
1.2 OHM	1/4W	5%	±100 ppm	5043EM1R200J	Tape & Reel
1.3 OHM	1/4W	5%	±100 ppm	5043EM1R300J	Tape & Reel
1.5 OHM	1/4W	5%	±100 ppm	5043EM1R500J	Tape & Reel
1.6 OHM	1/4W	5%	±100 ppm	5043EM1R600J	Tape & Reel
1.8 OHM	1/4W	5%	±100 ppm	5043EM1R800J	Tape & Reel
2.0 OHM	1/4W	5%	±100 ppm	5043EM2R000J	Tape & Reel
2.2 OHM	1/4W	5%	±100 ppm	5043EM2R200J	Tape & Reel
2.4 OHM	1/4W	5%	±100 ppm	5043EM2R400J	Tape & Reel
2.7 OHM	1/4W	5%	±100 ppm	5043EM2R700J	Tape & Reel
3.0 OHM	1/4W	5%	±100 ppm	5043EM3R000J	Tape & Reel
3.3 OHM	1/4W	5%	±100 ppm	5043EM3R300J	Tape & Reel
3.6 OHM	1/4W	5%	±100 ppm	5043EM3R600J	Tape & Reel
3.9 OHM	1/4W	5%	±100 ppm	5043EM3R900J	Tape & Reel
4.3 OHM	1/4W	5%	±100 ppm	5043EM4R300J	Tape & Reel
4.7 OHM	1/4W	5%	±100 ppm	5043EM4R700J	Tape & Reel
5.1 OHM	1/4W	5%	±100 ppm	5043EM5R100J	Tape & Reel
5.6 OHM	1/4W	5%	±100 ppm	5043EM5R600J	Tape & Reel
6.2 OHM	1/4W	5%	±100 ppm	5043EM6R200J	Tape & Reel
6.8 OHM	1/4W	5%	±100 ppm	5043EM6R800J	Tape & Reel
7.5 OHM	1/4W	5%	±100 ppm	5043EM7R500J	Tape & Reel
8.2 OHM	1/4W	5%	±100 ppm	5043EM8R200J	Tape & Reel
9.1 OHM	1/4W	5%	±100 ppm	5043EM9R100J	Tape & Reel
10 OHM	1/4W	5%	±100 ppm	5043EM10R00J	Tape & Reel
11 OHM	1/4W	5%	±100 ppm	5043EM11R00J	Tape & Reel
12 OHM	1/4W	5%	±100 ppm	5043EM12R00J	Tape & Reel
13 OHM	1/4W	5%	±100 ppm	5043EM13R00J	Tape & Reel
15 OHM	1/4W	5%	±100 ppm	5043EM15R00J	Tape & Reel
16 OHM	1/4W	5%	±100 ppm	5043EM16R00J	Tape & Reel
18 OHM	1/4W	5%	±100 ppm	5043EM18R00J	Tape & Reel
20 OHM	1/4W	5%	±100 ppm	5043EM20R00J	Tape & Reel
22 OHM	1/4W	5%	±100 ppm	5043EM22R00J	Tape & Reel
24 OHM	1/4W	5%	±100 ppm	5043EM24R00J	Tape & Reel
27 OHM	1/4W	5%	±100 ppm	5043EM27R00J	Tape & Reel
30 OHM	1/4W	5%	±100 ppm	5043EM30R00J	Tape & Reel
33 OHM	1/4W	5%	±100 ppm	5043EM33R00J	Tape & Reel
36 OHM	1/4W	5%	±100 ppm	5043EM36R00J	Tape & Reel
39 OHM	1/4W	5%	±100 ppm	5043EM39R00J	Tape & Reel
43 OHM	1/4W	5%	±100 ppm	5043EM43R00J	Tape & Reel
47 OHM	1/4W	5%	±100 ppm	5043EM47R00J	Tape & Reel
51 OHM	1/4W	5%	±100 ppm	5043EM51R00J	Tape & Reel
56 OHM	1/4W	5%	±100 ppm	5043EM56R00J	Tape & Reel
62 OHM	1/4W	5%	±100 ppm	5043EM62R00J	Tape & Reel
68 OHM	1/4W	5%	±100 ppm	5043EM68R00J	Tape & Reel
75 OHM	1/4W	5%	±100 ppm	5043EM75R00J	Tape & Reel
82 OHM	1/4W	5%	±100 ppm	5043EM82R00J	Tape & Reel
91 OHM	1/4W	5%	±100 ppm	5043EM91R00J	Tape & Reel
100 OHM	1/4W	5%	±100 ppm	5043EM100R0J	Tape & Reel
110 OHM	1/4W	5%	±100 ppm	5043EM110R0J	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	1/4W	5%	±100 ppm	5043EM120R0J	Tape & Reel
130 OHM	1/4W	5%	±100 ppm	5043EM130R0J	Tape & Reel
150 OHM	1/4W	5%	±100 ppm	5043EM150R0J	Tape & Reel
160 OHM	1/4W	5%	±100 ppm	5043EM160R0J	Tape & Reel
180 OHM	1/4W	5%	±100 ppm	5043EM180R0J	Tape & Reel
200 OHM	1/4W	5%	±100 ppm	5043EM200R0J	Tape & Reel
220 OHM	1/4W	5%	±100 ppm	5043EM220R0J	Tape & Reel
240 OHM	1/4W	5%	±100 ppm	5043EM240R0J	Tape & Reel
270 OHM	1/4W	5%	±100 ppm	5043EM270R0J	Tape & Reel
300 OHM	1/4W	5%	±100 ppm	5043EM300R0J	Tape & Reel
330 OHM	1/4W	5%	±100 ppm	5043EM330R0J	Tape & Reel
360 OHM	1/4W	5%	±100 ppm	5043EM360R0J	Tape & Reel
390 OHM	1/4W	5%	±100 ppm	5043EM390R0J	Tape & Reel
430 OHM	1/4W	5%	±100 ppm	5043EM430R0J	Tape & Reel
470 OHM	1/4W	5%	±100 ppm	5043EM470R0J	Tape & Reel
510 OHM	1/4W	5%	±100 ppm	5043EM510R0J	Tape & Reel
560 OHM	1/4W	5%	±100 ppm	5043EM560R0J	Tape & Reel
620 OHM	1/4W	5%	±100 ppm	5043EM620R0J	Tape & Reel
680 OHM	1/4W	5%	±100 ppm	5043EM680R0J	Tape & Reel
750 OHM	1/4W	5%	±100 ppm	5043EM750R0J	Tape & Reel
820 OHM	1/4W	5%	±100 ppm	5043EM820R0J	Tape & Reel
910 OHM	1/4W	5%	±100 ppm	5043EM910R0J	Tape & Reel
1.0 K OHM	1/4W	5%	±100 ppm	5043EM1K000J	Tape & Reel
1.1 K OHM	1/4W	5%	±100 ppm	5043EM1K100J	Tape & Reel
1.2 K OHM	1/4W	5%	±100 ppm	5043EM1K200J	Tape & Reel
1.3 K OHM	1/4W	5%	±100 ppm	5043EM1K300J	Tape & Reel
1.5 K OHM	1/4W	5%	±100 ppm	5043EM1K500J	Tape & Reel
1.6 K OHM	1/4W	5%	±100 ppm	5043EM1K600J	Tape & Reel
1.8 K OHM	1/4W	5%	±100 ppm	5043EM1K800J	Tape & Reel
2.0 K OHM	1/4W	5%	±100 ppm	5043EM2K000J	Tape & Reel
2.2 K OHM	1/4W	5%	±100 ppm	5043EM2K200J	Tape & Reel
2.4 K OHM	1/4W	5%	±100 ppm	5043EM2K400J	Tape & Reel
2.7 K OHM	1/4W	5%	±100 ppm	5043EM2K700J	Tape & Reel
3.0 K OHM	1/4W	5%	±100 ppm	5043EM3K000J	Tape & Reel
3.3 K OHM	1/4W	5%	±100 ppm	5043EM3K300J	Tape & Reel
3.6 K OHM	1/4W	5%	±100 ppm	5043EM3K600J	Tape & Reel
3.9 K OHM	1/4W	5%	±100 ppm	5043EM3K900J	Tape & Reel
4.3 K OHM	1/4W	5%	±100 ppm	5043EM4K300J	Tape & Reel
4.7 K OHM	1/4W	5%	±100 ppm	5043EM4K700J	Tape & Reel
5.1 K OHM	1/4W	5%	±100 ppm	5043EM5K100J	Tape & Reel
5.6 K OHM	1/4W	5%	±100 ppm	5043EM5K600J	Tape & Reel
6.2 K OHM	1/4W	5%	±100 ppm	5043EM6K200J	Tape & Reel
6.8 K OHM	1/4W	5%	±100 ppm	5043EM6K800J	Tape & Reel
7.5 K OHM	1/4W	5%	±100 ppm	5043EM7K500J	Tape & Reel
8.2 K OHM	1/4W	5%	±100 ppm	5043EM8K200J	Tape & Reel
9.1 K OHM	1/4W	5%	±100 ppm	5043EM9K100J	Tape & Reel
10 K OHM	1/4W	5%	±100 ppm	5043EM10K00J	Tape & Reel
11 K OHM	1/4W	5%	±100 ppm	5043EM11K00J	Tape & Reel
12 K OHM	1/4W	5%	±100 ppm	5043EM12K00J	Tape & Reel
13 K OHM	1/4W	5%	±100 ppm	5043EM13K00J	Tape & Reel

Metal Film Axial Lead Resistor

Series 5043EM

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15 K OHM	1/4W	5%	±100 ppm	5043EM15K00J	Tape & Reel
16 K OHM	1/4W	5%	±100 ppm	5043EM16K00J	Tape & Reel
18 K OHM	1/4W	5%	±100 ppm	5043EM18K00J	Tape & Reel
20 K OHM	1/4W	5%	±100 ppm	5043EM20K00J	Tape & Reel
22 K OHM	1/4W	5%	±100 ppm	5043EM22K00J	Tape & Reel
24 K OHM	1/4W	5%	±100 ppm	5043EM24K00J	Tape & Reel
27 K OHM	1/4W	5%	±100 ppm	5043EM27K00J	Tape & Reel
30 K OHM	1/4W	5%	±100 ppm	5043EM30K00J	Tape & Reel
33 K OHM	1/4W	5%	±100 ppm	5043EM33K00J	Tape & Reel
36 K OHM	1/4W	5%	±100 ppm	5043EM36K00J	Tape & Reel
39 K OHM	1/4W	5%	±100 ppm	5043EM39K00J	Tape & Reel
43 K OHM	1/4W	5%	±100 ppm	5043EM43K00J	Tape & Reel
47 K OHM	1/4W	5%	±100 ppm	5043EM47K00J	Tape & Reel
51 K OHM	1/4W	5%	±100 ppm	5043EM51K00J	Tape & Reel
56 K OHM	1/4W	5%	±100 ppm	5043EM56K00J	Tape & Reel
62 K OHM	1/4W	5%	±100 ppm	5043EM62K00J	Tape & Reel
68 K OHM	1/4W	5%	±100 ppm	5043EM68K00J	Tape & Reel
75 K OHM	1/4W	5%	±100 ppm	5043EM75K00J	Tape & Reel
82 K OHM	1/4W	5%	±100 ppm	5043EM82K00J	Tape & Reel
91 K OHM	1/4W	5%	±100 ppm	5043EM91K00J	Tape & Reel
100 K OHM	1/4W	5%	±100 ppm	5043EM100K0J	Tape & Reel
110 K OHM	1/4W	5%	±100 ppm	5043EM110K0J	Tape & Reel
120 K OHM	1/4W	5%	±100 ppm	5043EM120K0J	Tape & Reel
130 K OHM	1/4W	5%	±100 ppm	5043EM130K0J	Tape & Reel
150 K OHM	1/4W	5%	±100 ppm	5043EM150K0J	Tape & Reel
160 K OHM	1/4W	5%	±100 ppm	5043EM160K0J	Tape & Reel
180 K OHM	1/4W	5%	±100 ppm	5043EM180K0J	Tape & Reel
200 K OHM	1/4W	5%	±100 ppm	5043EM200K0J	Tape & Reel
220 K OHM	1/4W	5%	±100 ppm	5043EM220K0J	Tape & Reel
240 K OHM	1/4W	5%	±100 ppm	5043EM240K0J	Tape & Reel
270 K OHM	1/4W	5%	±100 ppm	5043EM270K0J	Tape & Reel
300 K OHM	1/4W	5%	±100 ppm	5043EM300K0J	Tape & Reel
330 K OHM	1/4W	5%	±100 ppm	5043EM330K0J	Tape & Reel
360 K OHM	1/4W	5%	±100 ppm	5043EM360K0J	Tape & Reel
390 K OHM	1/4W	5%	±100 ppm	5043EM390K0J	Tape & Reel
430 K OHM	1/4W	5%	±100 ppm	5043EM430K0J	Tape & Reel
470 K OHM	1/4W	5%	±100 ppm	5043EM470K0J	Tape & Reel
510 K OHM	1/4W	5%	±100 ppm	5043EM510K0J	Tape & Reel
560 K OHM	1/4W	5%	±100 ppm	5043EM560K0J	Tape & Reel
620 K OHM	1/4W	5%	±100 ppm	5043EM620K0J	Tape & Reel
680 K OHM	1/4W	5%	±100 ppm	5043EM680K0J	Tape & Reel
750 K OHM	1/4W	5%	±100 ppm	5043EM750K0J	Tape & Reel
820 K OHM	1/4W	5%	±100 ppm	5043EM820K0J	Tape & Reel
910 K OHM	1/4W	5%	±100 ppm	5043EM910K0J	Tape & Reel
1.0 M OHM	1/4W	5%	±250 ppm	5043EM1M000J	Tape & Reel
1.1 M OHM	1/4W	5%	±250 ppm	5043EM1M100J	Tape & Reel
1.2 M OHM	1/4W	5%	±250 ppm	5043EM1M200J	Tape & Reel
1.3 M OHM	1/4W	5%	±250 ppm	5043EM1M300J	Tape & Reel
1.5 M OHM	1/4W	5%	±250 ppm	5043EM1M500J	Tape & Reel
1.6 M OHM	1/4W	5%	±250 ppm	5043EM1M600J	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.8 M OHM	1/4W	5%	±250 ppm	5043EM1M800J	Tape & Reel
2.0 M OHM	1/4W	5%	±250 ppm	5043EM2M000J	Tape & Reel
2.2 M OHM	1/4W	5%	±250 ppm	5043EM2M200J	Tape & Reel
2.4 M OHM	1/4W	5%	±250 ppm	5043EM2M400J	Tape & Reel
2.7 M OHM	1/4W	5%	±250 ppm	5043EM2M700J	Tape & Reel
3.0 M OHM	1/4W	5%	±250 ppm	5043EM3M000J	Tape & Reel
3.3 M OHM	1/4W	5%	±250 ppm	5043EM3M300J	Tape & Reel
3.6 M OHM	1/4W	5%	±250 ppm	5043EM3M600J	Tape & Reel
3.9 M OHM	1/4W	5%	±250 ppm	5043EM3M900J	Tape & Reel
4.3 M OHM	1/4W	5%	±250 ppm	5043EM4M300J	Tape & Reel
4.7 M OHM	1/4W	5%	±250 ppm	5043EM4M700J	Tape & Reel
5.1 M OHM	1/4W	5%	±250 ppm	5043EM5M100J	Tape & Reel
5.6 M OHM	1/4W	5%	±250 ppm	5043EM5M600J	Tape & Reel
6.2 M OHM	1/4W	5%	±250 ppm	5043EM6M200J	Tape & Reel
6.8 M OHM	1/4W	5%	±250 ppm	5043EM6M800J	Tape & Reel
7.5 M OHM	1/4W	5%	±250 ppm	5043EM7M500J	Tape & Reel
8.2 M OHM	1/4W	5%	±250 ppm	5043EM8M200J	Tape & Reel
9.1 M OHM	1/4W	5%	±250 ppm	5043EM9M100J	Tape & Reel
10.0 M OHM	1/4W	5%	±250 ppm	5043EM10M00J	Tape & Reel

Metal Film Axial Lead Resistor

Series 5043ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
10 OHM	1/4W	1%	±100 ppm	5043ED10R00F	Tape & Reel
10.2 OHM	1/4W	1%	±100 ppm	5043ED10R20F	Tape & Reel
10.5 OHM	1/4W	1%	±100 ppm	5043ED10R50F	Tape & Reel
10.7 OHM	1/4W	1%	±100 ppm	5043ED10R70F	Tape & Reel
11 OHM	1/4W	1%	±100 ppm	5043ED11R00F	Tape & Reel
11.3 OHM	1/4W	1%	±100 ppm	5043ED11R30F	Tape & Reel
11.5 OHM	1/4W	1%	±100 ppm	5043ED11R50F	Tape & Reel
11.8 OHM	1/4W	1%	±100 ppm	5043ED11R80F	Tape & Reel
12 OHM	1/4W	1%	±100 ppm	5043ED12R00F	Tape & Reel
12.1 OHM	1/4W	1%	±100 ppm	5043ED12R10F	Tape & Reel
12.4 OHM	1/4W	1%	±100 ppm	5043ED12R40F	Tape & Reel
12.7 OHM	1/4W	1%	±100 ppm	5043ED12R70F	Tape & Reel
13 OHM	1/4W	1%	±100 ppm	5043ED13R00F	Tape & Reel
13.3 OHM	1/4W	1%	±100 ppm	5043ED13R30F	Tape & Reel
13.7 OHM	1/4W	1%	±100 ppm	5043ED13R70F	Tape & Reel
14 OHM	1/4W	1%	±100 ppm	5043ED14R00F	Tape & Reel
14.3 OHM	1/4W	1%	±100 ppm	5043ED14R30F	Tape & Reel
14.7 OHM	1/4W	1%	±100 ppm	5043ED14R70F	Tape & Reel
15 OHM	1/4W	1%	±100 ppm	5043ED15R00F	Tape & Reel
15.4 OHM	1/4W	1%	±100 ppm	5043ED15R40F	Tape & Reel
15.8 OHM	1/4W	1%	±100 ppm	5043ED15R80F	Tape & Reel
16 OHM	1/4W	1%	±100 ppm	5043ED16R00F	Tape & Reel
16.2 OHM	1/4W	1%	±100 ppm	5043ED16R20F	Tape & Reel
16.5 OHM	1/4W	1%	±100 ppm	5043ED16R50F	Tape & Reel
16.9 OHM	1/4W	1%	±100 ppm	5043ED16R90F	Tape & Reel
17.4 OHM	1/4W	1%	±100 ppm	5043ED17R40F	Tape & Reel
17.8 OHM	1/4W	1%	±100 ppm	5043ED17R80F	Tape & Reel
18 OHM	1/4W	1%	±100 ppm	5043ED18R00F	Tape & Reel
18.2 OHM	1/4W	1%	±100 ppm	5043ED18R20F	Tape & Reel
18.7 OHM	1/4W	1%	±100 ppm	5043ED18R70F	Tape & Reel
19.1 OHM	1/4W	1%	±100 ppm	5043ED19R10F	Tape & Reel
19.6 OHM	1/4W	1%	±100 ppm	5043ED19R60F	Tape & Reel
20 OHM	1/4W	1%	±100 ppm	5043ED20R00F	Tape & Reel
20.5 OHM	1/4W	1%	±100 ppm	5043ED20R50F	Tape & Reel
21 OHM	1/4W	1%	±100 ppm	5043ED21R00F	Tape & Reel
21.5 OHM	1/4W	1%	±100 ppm	5043ED21R50F	Tape & Reel
22 OHM	1/4W	1%	±100 ppm	5043ED22R00F	Tape & Reel
22.1 OHM	1/4W	1%	±100 ppm	5043ED22R10F	Tape & Reel
22.6 OHM	1/4W	1%	±100 ppm	5043ED22R60F	Tape & Reel
23.2 OHM	1/4W	1%	±100 ppm	5043ED23R20F	Tape & Reel
23.7 OHM	1/4W	1%	±100 ppm	5043ED23R70F	Tape & Reel
24 OHM	1/4W	1%	±100 ppm	5043ED24R00F	Tape & Reel
24.3 OHM	1/4W	1%	±100 ppm	5043ED24R30F	Tape & Reel
24.9 OHM	1/4W	1%	±100 ppm	5043ED24R90F	Tape & Reel
25.5 OHM	1/4W	1%	±100 ppm	5043ED25R50F	Tape & Reel
26.1 OHM	1/4W	1%	±100 ppm	5043ED26R10F	Tape & Reel
26.7 OHM	1/4W	1%	±100 ppm	5043ED26R70F	Tape & Reel
27 OHM	1/4W	1%	±100 ppm	5043ED27R00F	Tape & Reel
27.4 OHM	1/4W	1%	±100 ppm	5043ED27R40F	Tape & Reel
28 OHM	1/4W	1%	±100 ppm	5043ED28R00F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
28.7 OHM	1/4W	1%	±100 ppm	5043ED28R70F	Tape & Reel
29.4 OHM	1/4W	1%	±100 ppm	5043ED29R40F	Tape & Reel
30 OHM	1/4W	1%	±100 ppm	5043ED30R00F	Tape & Reel
30.1 OHM	1/4W	1%	±100 ppm	5043ED30R10F	Tape & Reel
30.9 OHM	1/4W	1%	±100 ppm	5043ED30R90F	Tape & Reel
31.6 OHM	1/4W	1%	±100 ppm	5043ED31R60F	Tape & Reel
32.4 OHM	1/4W	1%	±100 ppm	5043ED32R40F	Tape & Reel
33 OHM	1/4W	1%	±100 ppm	5043ED33R00F	Tape & Reel
33.2 OHM	1/4W	1%	±100 ppm	5043ED33R20F	Tape & Reel
34 OHM	1/4W	1%	±100 ppm	5043ED34R00F	Tape & Reel
34.8 OHM	1/4W	1%	±100 ppm	5043ED34R80F	Tape & Reel
35.7 OHM	1/4W	1%	±100 ppm	5043ED35R70F	Tape & Reel
36 OHM	1/4W	1%	±100 ppm	5043ED36R00F	Tape & Reel
36.5 OHM	1/4W	1%	±100 ppm	5043ED36R50F	Tape & Reel
37.4 OHM	1/4W	1%	±100 ppm	5043ED37R40F	Tape & Reel
38.3 OHM	1/4W	1%	±100 ppm	5043ED38R30F	Tape & Reel
39 OHM	1/4W	1%	±100 ppm	5043ED39R00F	Tape & Reel
39.2 OHM	1/4W	1%	±100 ppm	5043ED39R20F	Tape & Reel
40.2 OHM	1/4W	1%	±100 ppm	5043ED40R20F	Tape & Reel
41.2 OHM	1/4W	1%	±100 ppm	5043ED41R20F	Tape & Reel
42.2 OHM	1/4W	1%	±100 ppm	5043ED42R20F	Tape & Reel
43 OHM	1/4W	1%	±100 ppm	5043ED43R00F	Tape & Reel
43.2 OHM	1/4W	1%	±100 ppm	5043ED43R20F	Tape & Reel
44.2 OHM	1/4W	1%	±100 ppm	5043ED44R20F	Tape & Reel
45.3 OHM	1/4W	1%	±100 ppm	5043ED45R30F	Tape & Reel
46.4 OHM	1/4W	1%	±100 ppm	5043ED46R40F	Tape & Reel
47 OHM	1/4W	1%	±100 ppm	5043ED47R00F	Tape & Reel
47.5 OHM	1/4W	1%	±100 ppm	5043ED47R50F	Tape & Reel
48.7 OHM	1/4W	1%	±100 ppm	5043ED48R70F	Tape & Reel
49.9 OHM	1/4W	1%	±100 ppm	5043ED49R90F	Tape & Reel
51 OHM	1/4W	1%	±100 ppm	5043ED51R00F	Tape & Reel
51.1 OHM	1/4W	1%	±100 ppm	5043ED51R10F	Tape & Reel
52.3 OHM	1/4W	1%	±100 ppm	5043ED52R30F	Tape & Reel
53.6 OHM	1/4W	1%	±100 ppm	5043ED53R60F	Tape & Reel
54.9 OHM	1/4W	1%	±100 ppm	5043ED54R90F	Tape & Reel
56 OHM	1/4W	1%	±100 ppm	5043ED56R00F	Tape & Reel
56.2 OHM	1/4W	1%	±100 ppm	5043ED56R20F	Tape & Reel
57.6 OHM	1/4W	1%	±100 ppm	5043ED57R60F	Tape & Reel
59 OHM	1/4W	1%	±100 ppm	5043ED59R00F	Tape & Reel
60.4 OHM	1/4W	1%	±100 ppm	5043ED60R40F	Tape & Reel
61.9 OHM	1/4W	1%	±100 ppm	5043ED61R90F	Tape & Reel
62 OHM	1/4W	1%	±100 ppm	5043ED62R00F	Tape & Reel
63.4 OHM	1/4W	1%	±100 ppm	5043ED63R40F	Tape & Reel
64.9 OHM	1/4W	1%	±100 ppm	5043ED64R90F	Tape & Reel
66.5 OHM	1/4W	1%	±100 ppm	5043ED66R50F	Tape & Reel
68 OHM	1/4W	1%	±100 ppm	5043ED68R00F	Tape & Reel
68.1 OHM	1/4W	1%	±100 ppm	5043ED68R10F	Tape & Reel
69.8 OHM	1/4W	1%	±100 ppm	5043ED69R80F	Tape & Reel
71.5 OHM	1/4W	1%	±100 ppm	5043ED71R50F	Tape & Reel
73.2 OHM	1/4W	1%	±100 ppm	5043ED73R20F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5043ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
75 OHM	1/4W	1%	±100 ppm	5043ED75R00F	Tape & Reel
76.8 OHM	1/4W	1%	±100 ppm	5043ED76R80F	Tape & Reel
78.7 OHM	1/4W	1%	±100 ppm	5043ED78R70F	Tape & Reel
80.6 OHM	1/4W	1%	±100 ppm	5043ED80R60F	Tape & Reel
82 OHM	1/4W	1%	±100 ppm	5043ED82R00F	Tape & Reel
82.5 OHM	1/4W	1%	±100 ppm	5043ED82R50F	Tape & Reel
84.5 OHM	1/4W	1%	±100 ppm	5043ED84R50F	Tape & Reel
86.6 OHM	1/4W	1%	±100 ppm	5043ED86R60F	Tape & Reel
88.7 OHM	1/4W	1%	±100 ppm	5043ED88R70F	Tape & Reel
90.9 OHM	1/4W	1%	±100 ppm	5043ED90R90F	Tape & Reel
91 OHM	1/4W	1%	±100 ppm	5043ED91R00F	Tape & Reel
93.1 OHM	1/4W	1%	±100 ppm	5043ED93R10F	Tape & Reel
95.3 OHM	1/4W	1%	±100 ppm	5043ED95R30F	Tape & Reel
97.6 OHM	1/4W	1%	±100 ppm	5043ED97R60F	Tape & Reel
100 OHM	1/4W	1%	±100 ppm	5043ED100R0F	Tape & Reel
102 OHM	1/4W	1%	±100 ppm	5043ED102R0F	Tape & Reel
105 OHM	1/4W	1%	±100 ppm	5043ED105R0F	Tape & Reel
107 OHM	1/4W	1%	±100 ppm	5043ED107R0F	Tape & Reel
110 OHM	1/4W	1%	±100 ppm	5043ED110R0F	Tape & Reel
113 OHM	1/4W	1%	±100 ppm	5043ED113R0F	Tape & Reel
115 OHM	1/4W	1%	±100 ppm	5043ED115R0F	Tape & Reel
118 OHM	1/4W	1%	±100 ppm	5043ED118R0F	Tape & Reel
120 OHM	1/4W	1%	±100 ppm	5043ED120R0F	Tape & Reel
121 OHM	1/4W	1%	±100 ppm	5043ED121R0F	Tape & Reel
124 OHM	1/4W	1%	±100 ppm	5043ED124R0F	Tape & Reel
127 OHM	1/4W	1%	±100 ppm	5043ED127R0F	Tape & Reel
130 OHM	1/4W	1%	±100 ppm	5043ED130R0F	Tape & Reel
133 OHM	1/4W	1%	±100 ppm	5043ED133R0F	Tape & Reel
137 OHM	1/4W	1%	±100 ppm	5043ED137R0F	Tape & Reel
140 OHM	1/4W	1%	±100 ppm	5043ED140R0F	Tape & Reel
143 OHM	1/4W	1%	±100 ppm	5043ED143R0F	Tape & Reel
147 OHM	1/4W	1%	±100 ppm	5043ED147R0F	Tape & Reel
150 OHM	1/4W	1%	±100 ppm	5043ED150R0F	Tape & Reel
154 OHM	1/4W	1%	±100 ppm	5043ED154R0F	Tape & Reel
158 OHM	1/4W	1%	±100 ppm	5043ED158R0F	Tape & Reel
160 OHM	1/4W	1%	±100 ppm	5043ED160R0F	Tape & Reel
162 OHM	1/4W	1%	±100 ppm	5043ED162R0F	Tape & Reel
165 OHM	1/4W	1%	±100 ppm	5043ED165R0F	Tape & Reel
169 OHM	1/4W	1%	±100 ppm	5043ED169R0F	Tape & Reel
174 OHM	1/4W	1%	±100 ppm	5043ED174R0F	Tape & Reel
178 OHM	1/4W	1%	±100 ppm	5043ED178R0F	Tape & Reel
180 OHM	1/4W	1%	±100 ppm	5043ED180R0F	Tape & Reel
182 OHM	1/4W	1%	±100 ppm	5043ED182R0F	Tape & Reel
187 OHM	1/4W	1%	±100 ppm	5043ED187R0F	Tape & Reel
191 OHM	1/4W	1%	±100 ppm	5043ED191R0F	Tape & Reel
196 OHM	1/4W	1%	±100 ppm	5043ED196R0F	Tape & Reel
200 OHM	1/4W	1%	±100 ppm	5043ED200R0F	Tape & Reel
205 OHM	1/4W	1%	±100 ppm	5043ED205R0F	Tape & Reel
210 OHM	1/4W	1%	±100 ppm	5043ED210R0F	Tape & Reel
215 OHM	1/4W	1%	±100 ppm	5043ED215R0F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
220 OHM	1/4W	1%	±100 ppm	5043ED220R0F	Tape & Reel
221 OHM	1/4W	1%	±100 ppm	5043ED221R0F	Tape & Reel
226 OHM	1/4W	1%	±100 ppm	5043ED226R0F	Tape & Reel
232 OHM	1/4W	1%	±100 ppm	5043ED232R0F	Tape & Reel
237 OHM	1/4W	1%	±100 ppm	5043ED237R0F	Tape & Reel
240 OHM	1/4W	1%	±100 ppm	5043ED240R0F	Tape & Reel
243 OHM	1/4W	1%	±100 ppm	5043ED243R0F	Tape & Reel
249 OHM	1/4W	1%	±100 ppm	5043ED249R0F	Tape & Reel
255 OHM	1/4W	1%	±100 ppm	5043ED255R0F	Tape & Reel
261 OHM	1/4W	1%	±100 ppm	5043ED261R0F	Tape & Reel
267 OHM	1/4W	1%	±100 ppm	5043ED267R0F	Tape & Reel
270 OHM	1/4W	1%	±100 ppm	5043ED270R0F	Tape & Reel
274 OHM	1/4W	1%	±100 ppm	5043ED274R0F	Tape & Reel
280 OHM	1/4W	1%	±100 ppm	5043ED280R0F	Tape & Reel
287 OHM	1/4W	1%	±100 ppm	5043ED287R0F	Tape & Reel
294 OHM	1/4W	1%	±100 ppm	5043ED294R0F	Tape & Reel
300 OHM	1/4W	1%	±100 ppm	5043ED300R0F	Tape & Reel
301 OHM	1/4W	1%	±100 ppm	5043ED301R0F	Tape & Reel
309 OHM	1/4W	1%	±100 ppm	5043ED309R0F	Tape & Reel
316 OHM	1/4W	1%	±100 ppm	5043ED316R0F	Tape & Reel
324 OHM	1/4W	1%	±100 ppm	5043ED324R0F	Tape & Reel
330 OHM	1/4W	1%	±100 ppm	5043ED330R0F	Tape & Reel
332 OHM	1/4W	1%	±100 ppm	5043ED332R0F	Tape & Reel
340 OHM	1/4W	1%	±100 ppm	5043ED340R0F	Tape & Reel
348 OHM	1/4W	1%	±100 ppm	5043ED348R0F	Tape & Reel
357 OHM	1/4W	1%	±100 ppm	5043ED357R0F	Tape & Reel
360 OHM	1/4W	1%	±100 ppm	5043ED360R0F	Tape & Reel
365 OHM	1/4W	1%	±100 ppm	5043ED365R0F	Tape & Reel
374 OHM	1/4W	1%	±100 ppm	5043ED374R0F	Tape & Reel
383 OHM	1/4W	1%	±100 ppm	5043ED383R0F	Tape & Reel
390 OHM	1/4W	1%	±100 ppm	5043ED390R0F	Tape & Reel
392 OHM	1/4W	1%	±100 ppm	5043ED392R0F	Tape & Reel
402 OHM	1/4W	1%	±100 ppm	5043ED402R0F	Tape & Reel
412 OHM	1/4W	1%	±100 ppm	5043ED412R0F	Tape & Reel
422 OHM	1/4W	1%	±100 ppm	5043ED422R0F	Tape & Reel
430 OHM	1/4W	1%	±100 ppm	5043ED430R0F	Tape & Reel
432 OHM	1/4W	1%	±100 ppm	5043ED432R0F	Tape & Reel
442 OHM	1/4W	1%	±100 ppm	5043ED442R0F	Tape & Reel
453 OHM	1/4W	1%	±100 ppm	5043ED453R0F	Tape & Reel
464 OHM	1/4W	1%	±100 ppm	5043ED464R0F	Tape & Reel
470 OHM	1/4W	1%	±100 ppm	5043ED470R0F	Tape & Reel
475 OHM	1/4W	1%	±100 ppm	5043ED475R0F	Tape & Reel
487 OHM	1/4W	1%	±100 ppm	5043ED487R0F	Tape & Reel
499 OHM	1/4W	1%	±100 ppm	5043ED499R0F	Tape & Reel
510 OHM	1/4W	1%	±100 ppm	5043ED510R0F	Tape & Reel
511 OHM	1/4W	1%	±100 ppm	5043ED511R0F	Tape & Reel
523 OHM	1/4W	1%	±100 ppm	5043ED523R0F	Tape & Reel
536 OHM	1/4W	1%	±100 ppm	5043ED536R0F	Tape & Reel
549 OHM	1/4W	1%	±100 ppm	5043ED549R0F	Tape & Reel
560 OHM	1/4W	1%	±100 ppm	5043ED560R0F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5043ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
562 OHM	1/4W	1%	±100 ppm	5043ED562R0F	Tape & Reel
576 OHM	1/4W	1%	±100 ppm	5043ED576R0F	Tape & Reel
590 OHM	1/4W	1%	±100 ppm	5043ED590R0F	Tape & Reel
604 OHM	1/4W	1%	±100 ppm	5043ED604R0F	Tape & Reel
619 OHM	1/4W	1%	±100 ppm	5043ED619R0F	Tape & Reel
620 OHM	1/4W	1%	±100 ppm	5043ED620R0F	Tape & Reel
634 OHM	1/4W	1%	±100 ppm	5043ED634R0F	Tape & Reel
649 OHM	1/4W	1%	±100 ppm	5043ED649R0F	Tape & Reel
665 OHM	1/4W	1%	±100 ppm	5043ED665R0F	Tape & Reel
680 OHM	1/4W	1%	±100 ppm	5043ED680R0F	Tape & Reel
681 OHM	1/4W	1%	±100 ppm	5043ED681R0F	Tape & Reel
698 OHM	1/4W	1%	±100 ppm	5043ED698R0F	Tape & Reel
715 OHM	1/4W	1%	±100 ppm	5043ED715R0F	Tape & Reel
732 OHM	1/4W	1%	±100 ppm	5043ED732R0F	Tape & Reel
750 OHM	1/4W	1%	±100 ppm	5043ED750R0F	Tape & Reel
768 OHM	1/4W	1%	±100 ppm	5043ED768R0F	Tape & Reel
787 OHM	1/4W	1%	±100 ppm	5043ED787R0F	Tape & Reel
806 OHM	1/4W	1%	±100 ppm	5043ED806R0F	Tape & Reel
820 OHM	1/4W	1%	±100 ppm	5043ED820R0F	Tape & Reel
825 OHM	1/4W	1%	±100 ppm	5043ED825R0F	Tape & Reel
845 OHM	1/4W	1%	±100 ppm	5043ED845R0F	Tape & Reel
866 OHM	1/4W	1%	±100 ppm	5043ED866R0F	Tape & Reel
887 OHM	1/4W	1%	±100 ppm	5043ED887R0F	Tape & Reel
909 OHM	1/4W	1%	±100 ppm	5043ED909R0F	Tape & Reel
910 OHM	1/4W	1%	±100 ppm	5043ED910R0F	Tape & Reel
931 OHM	1/4W	1%	±100 ppm	5043ED931R0F	Tape & Reel
953 OHM	1/4W	1%	±100 ppm	5043ED953R0F	Tape & Reel
976 OHM	1/4W	1%	±100 ppm	5043ED976R0F	Tape & Reel
1 K OHM	1/4W	1%	±100 ppm	5043ED1K000F	Tape & Reel
1.02 K OHM	1/4W	1%	±100 ppm	5043ED1K020F	Tape & Reel
1.05 K OHM	1/4W	1%	±100 ppm	5043ED1K050F	Tape & Reel
1.07 K OHM	1/4W	1%	±100 ppm	5043ED1K070F	Tape & Reel
1.1 K OHM	1/4W	1%	±100 ppm	5043ED1K100F	Tape & Reel
1.13 K OHM	1/4W	1%	±100 ppm	5043ED1K130F	Tape & Reel
1.15 K OHM	1/4W	1%	±100 ppm	5043ED1K150F	Tape & Reel
1.18 K OHM	1/4W	1%	±100 ppm	5043ED1K180F	Tape & Reel
1.2 K OHM	1/4W	1%	±100 ppm	5043ED1K200F	Tape & Reel
1.21 K OHM	1/4W	1%	±100 ppm	5043ED1K210F	Tape & Reel
1.24 K OHM	1/4W	1%	±100 ppm	5043ED1K240F	Tape & Reel
1.27 K OHM	1/4W	1%	±100 ppm	5043ED1K270F	Tape & Reel
1.3 K OHM	1/4W	1%	±100 ppm	5043ED1K300F	Tape & Reel
1.33 K OHM	1/4W	1%	±100 ppm	5043ED1K330F	Tape & Reel
1.37 K OHM	1/4W	1%	±100 ppm	5043ED1K370F	Tape & Reel
1.4 K OHM	1/4W	1%	±100 ppm	5043ED1K400F	Tape & Reel
1.43 K OHM	1/4W	1%	±100 ppm	5043ED1K430F	Tape & Reel
1.47 K OHM	1/4W	1%	±100 ppm	5043ED1K470F	Tape & Reel
1.5 K OHM	1/4W	1%	±100 ppm	5043ED1K500F	Tape & Reel
1.54 K OHM	1/4W	1%	±100 ppm	5043ED1K540F	Tape & Reel
1.58 K OHM	1/4W	1%	±100 ppm	5043ED1K580F	Tape & Reel
1.6 K OHM	1/4W	1%	±100 ppm	5043ED1K600F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.62 K OHM	1/4W	1%	±100 ppm	5043ED1K620F	Tape & Reel
1.65 K OHM	1/4W	1%	±100 ppm	5043ED1K650F	Tape & Reel
1.69 K OHM	1/4W	1%	±100 ppm	5043ED1K690F	Tape & Reel
1.74 K OHM	1/4W	1%	±100 ppm	5043ED1K740F	Tape & Reel
1.78 K OHM	1/4W	1%	±100 ppm	5043ED1K780F	Tape & Reel
1.8 K OHM	1/4W	1%	±100 ppm	5043ED1K800F	Tape & Reel
1.82 K OHM	1/4W	1%	±100 ppm	5043ED1K820F	Tape & Reel
1.87 K OHM	1/4W	1%	±100 ppm	5043ED1K870F	Tape & Reel
1.91 K OHM	1/4W	1%	±100 ppm	5043ED1K910F	Tape & Reel
1.96 K OHM	1/4W	1%	±100 ppm	5043ED1K960F	Tape & Reel
2 K OHM	1/4W	1%	±100 ppm	5043ED2K000F	Tape & Reel
2.05 K OHM	1/4W	1%	±100 ppm	5043ED2K050F	Tape & Reel
2.1 K OHM	1/4W	1%	±100 ppm	5043ED2K100F	Tape & Reel
2.15 K OHM	1/4W	1%	±100 ppm	5043ED2K150F	Tape & Reel
2.2 K OHM	1/4W	1%	±100 ppm	5043ED2K200F	Tape & Reel
2.21 K OHM	1/4W	1%	±100 ppm	5043ED2K210F	Tape & Reel
2.26 K OHM	1/4W	1%	±100 ppm	5043ED2K260F	Tape & Reel
2.32 K OHM	1/4W	1%	±100 ppm	5043ED2K320F	Tape & Reel
2.37 K OHM	1/4W	1%	±100 ppm	5043ED2K370F	Tape & Reel
2.4 K OHM	1/4W	1%	±100 ppm	5043ED2K400F	Tape & Reel
2.43 K OHM	1/4W	1%	±100 ppm	5043ED2K430F	Tape & Reel
2.49 K OHM	1/4W	1%	±100 ppm	5043ED2K490F	Tape & Reel
2.55 K OHM	1/4W	1%	±100 ppm	5043ED2K550F	Tape & Reel
2.61 K OHM	1/4W	1%	±100 ppm	5043ED2K610F	Tape & Reel
2.67 K OHM	1/4W	1%	±100 ppm	5043ED2K670F	Tape & Reel
2.7 K OHM	1/4W	1%	±100 ppm	5043ED2K700F	Tape & Reel
2.74 K OHM	1/4W	1%	±100 ppm	5043ED2K740F	Tape & Reel
2.8 K OHM	1/4W	1%	±100 ppm	5043ED2K800F	Tape & Reel
2.87 K OHM	1/4W	1%	±100 ppm	5043ED2K870F	Tape & Reel
2.94 K OHM	1/4W	1%	±100 ppm	5043ED2K940F	Tape & Reel
3 K OHM	1/4W	1%	±100 ppm	5043ED3K000F	Tape & Reel
3.01 K OHM	1/4W	1%	±100 ppm	5043ED3K010F	Tape & Reel
3.09 K OHM	1/4W	1%	±100 ppm	5043ED3K090F	Tape & Reel
3.16 K OHM	1/4W	1%	±100 ppm	5043ED3K160F	Tape & Reel
3.24 K OHM	1/4W	1%	±100 ppm	5043ED3K240F	Tape & Reel
3.3 K OHM	1/4W	1%	±100 ppm	5043ED3K300F	Tape & Reel
3.32 K OHM	1/4W	1%	±100 ppm	5043ED3K320F	Tape & Reel
3.4 K OHM	1/4W	1%	±100 ppm	5043ED3K400F	Tape & Reel
3.48 K OHM	1/4W	1%	±100 ppm	5043ED3K480F	Tape & Reel
3.57 K OHM	1/4W	1%	±100 ppm	5043ED3K570F	Tape & Reel
3.6 K OHM	1/4W	1%	±100 ppm	5043ED3K600F	Tape & Reel
3.65 K OHM	1/4W	1%	±100 ppm	5043ED3K650F	Tape & Reel
3.74 K OHM	1/4W	1%	±100 ppm	5043ED3K740F	Tape & Reel
3.83 K OHM	1/4W	1%	±100 ppm	5043ED3K830F	Tape & Reel
3.9 K OHM	1/4W	1%	±100 ppm	5043ED3K900F	Tape & Reel
3.92 K OHM	1/4W	1%	±100 ppm	5043ED3K920F	Tape & Reel
4.02 K OHM	1/4W	1%	±100 ppm	5043ED4K020F	Tape & Reel
4.12 K OHM	1/4W	1%	±100 ppm	5043ED4K120F	Tape & Reel
4.22 K OHM	1/4W	1%	±100 ppm	5043ED4K220F	Tape & Reel
4.3 K OHM	1/4W	1%	±100 ppm	5043ED4K300F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5043ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
4.32 K OHM	1/4W	1%	±100 ppm	5043ED4K320F	Tape & Reel
4.42 K OHM	1/4W	1%	±100 ppm	5043ED4K420F	Tape & Reel
4.53 K OHM	1/4W	1%	±100 ppm	5043ED4K530F	Tape & Reel
4.64 K OHM	1/4W	1%	±100 ppm	5043ED4K640F	Tape & Reel
4.7 K OHM	1/4W	1%	±100 ppm	5043ED4K700F	Tape & Reel
4.75 K OHM	1/4W	1%	±100 ppm	5043ED4K750F	Tape & Reel
4.87 K OHM	1/4W	1%	±100 ppm	5043ED4K870F	Tape & Reel
4.99 K OHM	1/4W	1%	±100 ppm	5043ED4K990F	Tape & Reel
5.1 K OHM	1/4W	1%	±100 ppm	5043ED5K100F	Tape & Reel
5.11 K OHM	1/4W	1%	±100 ppm	5043ED5K110F	Tape & Reel
5.23 K OHM	1/4W	1%	±100 ppm	5043ED5K230F	Tape & Reel
5.36 K OHM	1/4W	1%	±100 ppm	5043ED5K360F	Tape & Reel
5.49 K OHM	1/4W	1%	±100 ppm	5043ED5K490F	Tape & Reel
5.6 K OHM	1/4W	1%	±100 ppm	5043ED5K600F	Tape & Reel
5.62 K OHM	1/4W	1%	±100 ppm	5043ED5K620F	Tape & Reel
5.76 K OHM	1/4W	1%	±100 ppm	5043ED5K760F	Tape & Reel
5.9 K OHM	1/4W	1%	±100 ppm	5043ED5K900F	Tape & Reel
6.04 K OHM	1/4W	1%	±100 ppm	5043ED6K040F	Tape & Reel
6.19 K OHM	1/4W	1%	±100 ppm	5043ED6K190F	Tape & Reel
6.2 K OHM	1/4W	1%	±100 ppm	5043ED6K200F	Tape & Reel
6.34 K OHM	1/4W	1%	±100 ppm	5043ED6K340F	Tape & Reel
6.49 K OHM	1/4W	1%	±100 ppm	5043ED6K490F	Tape & Reel
6.65 K OHM	1/4W	1%	±100 ppm	5043ED6K650F	Tape & Reel
6.8 K OHM	1/4W	1%	±100 ppm	5043ED6K800F	Tape & Reel
6.81 K OHM	1/4W	1%	±100 ppm	5043ED6K810F	Tape & Reel
6.98 K OHM	1/4W	1%	±100 ppm	5043ED6K980F	Tape & Reel
7.15 K OHM	1/4W	1%	±100 ppm	5043ED7K150F	Tape & Reel
7.32 K OHM	1/4W	1%	±100 ppm	5043ED7K320F	Tape & Reel
7.5 K OHM	1/4W	1%	±100 ppm	5043ED7K500F	Tape & Reel
7.68 K OHM	1/4W	1%	±100 ppm	5043ED7K680F	Tape & Reel
7.87 K OHM	1/4W	1%	±100 ppm	5043ED7K870F	Tape & Reel
8.06 K OHM	1/4W	1%	±100 ppm	5043ED8K060F	Tape & Reel
8.2 K OHM	1/4W	1%	±100 ppm	5043ED8K200F	Tape & Reel
8.25 K OHM	1/4W	1%	±100 ppm	5043ED8K250F	Tape & Reel
8.45 K OHM	1/4W	1%	±100 ppm	5043ED8K450F	Tape & Reel
8.66 K OHM	1/4W	1%	±100 ppm	5043ED8K660F	Tape & Reel
8.87 K OHM	1/4W	1%	±100 ppm	5043ED8K870F	Tape & Reel
9.09 K OHM	1/4W	1%	±100 ppm	5043ED9K090F	Tape & Reel
9.1 K OHM	1/4W	1%	±100 ppm	5043ED9K100F	Tape & Reel
9.31 K OHM	1/4W	1%	±100 ppm	5043ED9K310F	Tape & Reel
9.53 K OHM	1/4W	1%	±100 ppm	5043ED9K530F	Tape & Reel
9.76 K OHM	1/4W	1%	±100 ppm	5043ED9K760F	Tape & Reel
10 K OHM	1/4W	1%	±100 ppm	5043ED10K00F	Tape & Reel
10.2 K OHM	1/4W	1%	±100 ppm	5043ED10K20F	Tape & Reel
10.5 K OHM	1/4W	1%	±100 ppm	5043ED10K50F	Tape & Reel
10.7 K OHM	1/4W	1%	±100 ppm	5043ED10K70F	Tape & Reel
11 K OHM	1/4W	1%	±100 ppm	5043ED11K00F	Tape & Reel
11.3 K OHM	1/4W	1%	±100 ppm	5043ED11K30F	Tape & Reel
11.5 K OHM	1/4W	1%	±100 ppm	5043ED11K50F	Tape & Reel
11.8 K OHM	1/4W	1%	±100 ppm	5043ED11K80F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
12 K OHM	1/4W	1%	±100 ppm	5043ED12K00F	Tape & Reel
12.1 K OHM	1/4W	1%	±100 ppm	5043ED12K10F	Tape & Reel
12.4 K OHM	1/4W	1%	±100 ppm	5043ED12K40F	Tape & Reel
12.7 K OHM	1/4W	1%	±100 ppm	5043ED12K70F	Tape & Reel
13 K OHM	1/4W	1%	±100 ppm	5043ED13K00F	Tape & Reel
13.3 K OHM	1/4W	1%	±100 ppm	5043ED13K30F	Tape & Reel
13.7 K OHM	1/4W	1%	±100 ppm	5043ED13K70F	Tape & Reel
14 K OHM	1/4W	1%	±100 ppm	5043ED14K00F	Tape & Reel
14.3 K OHM	1/4W	1%	±100 ppm	5043ED14K30F	Tape & Reel
14.7 K OHM	1/4W	1%	±100 ppm	5043ED14K70F	Tape & Reel
15 K OHM	1/4W	1%	±100 ppm	5043ED15K00F	Tape & Reel
15.4 K OHM	1/4W	1%	±100 ppm	5043ED15K40F	Tape & Reel
15.8 K OHM	1/4W	1%	±100 ppm	5043ED15K80F	Tape & Reel
16 K OHM	1/4W	1%	±100 ppm	5043ED16K00F	Tape & Reel
16.2 K OHM	1/4W	1%	±100 ppm	5043ED16K20F	Tape & Reel
16.5 K OHM	1/4W	1%	±100 ppm	5043ED16K50F	Tape & Reel
16.9 K OHM	1/4W	1%	±100 ppm	5043ED16K90F	Tape & Reel
17.4 K OHM	1/4W	1%	±100 ppm	5043ED17K40F	Tape & Reel
17.8 K OHM	1/4W	1%	±100 ppm	5043ED17K80F	Tape & Reel
18 K OHM	1/4W	1%	±100 ppm	5043ED18K00F	Tape & Reel
18.2 K OHM	1/4W	1%	±100 ppm	5043ED18K20F	Tape & Reel
18.7 K OHM	1/4W	1%	±100 ppm	5043ED18K70F	Tape & Reel
19.1 K OHM	1/4W	1%	±100 ppm	5043ED19K10F	Tape & Reel
19.6 K OHM	1/4W	1%	±100 ppm	5043ED19K60F	Tape & Reel
20 K OHM	1/4W	1%	±100 ppm	5043ED20K00F	Tape & Reel
20.5 K OHM	1/4W	1%	±100 ppm	5043ED20K50F	Tape & Reel
21 K OHM	1/4W	1%	±100 ppm	5043ED21K00F	Tape & Reel
21.5 K OHM	1/4W	1%	±100 ppm	5043ED21K50F	Tape & Reel
22 K OHM	1/4W	1%	±100 ppm	5043ED22K00F	Tape & Reel
22.1 K OHM	1/4W	1%	±100 ppm	5043ED22K10F	Tape & Reel
22.6 K OHM	1/4W	1%	±100 ppm	5043ED22K60F	Tape & Reel
23.2 K OHM	1/4W	1%	±100 ppm	5043ED23K20F	Tape & Reel
23.7 K OHM	1/4W	1%	±100 ppm	5043ED23K70F	Tape & Reel
24 K OHM	1/4W	1%	±100 ppm	5043ED24K00F	Tape & Reel
24.3 K OHM	1/4W	1%	±100 ppm	5043ED24K30F	Tape & Reel
24.9 K OHM	1/4W	1%	±100 ppm	5043ED24K90F	Tape & Reel
25.5 K OHM	1/4W	1%	±100 ppm	5043ED25K50F	Tape & Reel
26.1 K OHM	1/4W	1%	±100 ppm	5043ED26K10F	Tape & Reel
26.7 K OHM	1/4W	1%	±100 ppm	5043ED26K70F	Tape & Reel
27 K OHM	1/4W	1%	±100 ppm	5043ED27K00F	Tape & Reel
27.4 K OHM	1/4W	1%	±100 ppm	5043ED27K40F	Tape & Reel
28 K OHM	1/4W	1%	±100 ppm	5043ED28K00F	Tape & Reel
28.7 K OHM	1/4W	1%	±100 ppm	5043ED28K70F	Tape & Reel
29.4 K OHM	1/4W	1%	±100 ppm	5043ED29K40F	Tape & Reel
30 K OHM	1/4W	1%	±100 ppm	5043ED30K00F	Tape & Reel
30.1 K OHM	1/4W	1%	±100 ppm	5043ED30K10F	Tape & Reel
30.9 K OHM	1/4W	1%	±100 ppm	5043ED30K90F	Tape & Reel
31.6 K OHM	1/4W	1%	±100 ppm	5043ED31K60F	Tape & Reel
32.4 K OHM	1/4W	1%	±100 ppm	5043ED32K40F	Tape & Reel
33 K OHM	1/4W	1%	±100 ppm	5043ED33K00F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5043ED

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
33.2 K OHM	1/4W	1%	±100 ppm	5043ED33K20F	Tape & Reel
34 K OHM	1/4W	1%	±100 ppm	5043ED34K00F	Tape & Reel
34.8 K OHM	1/4W	1%	±100 ppm	5043ED34K80F	Tape & Reel
35.7 K OHM	1/4W	1%	±100 ppm	5043ED35K70F	Tape & Reel
36 K OHM	1/4W	1%	±100 ppm	5043ED36K00F	Tape & Reel
36.5 K OHM	1/4W	1%	±100 ppm	5043ED36K50F	Tape & Reel
37.4 K OHM	1/4W	1%	±100 ppm	5043ED37K40F	Tape & Reel
38.3 K OHM	1/4W	1%	±100 ppm	5043ED38K30F	Tape & Reel
39 K OHM	1/4W	1%	±100 ppm	5043ED39K00F	Tape & Reel
39.2 K OHM	1/4W	1%	±100 ppm	5043ED39K20F	Tape & Reel
40.2 K OHM	1/4W	1%	±100 ppm	5043ED40K20F	Tape & Reel
41.2 K OHM	1/4W	1%	±100 ppm	5043ED41K20F	Tape & Reel
42.2 K OHM	1/4W	1%	±100 ppm	5043ED42K20F	Tape & Reel
43 K OHM	1/4W	1%	±100 ppm	5043ED43K00F	Tape & Reel
43.2 K OHM	1/4W	1%	±100 ppm	5043ED43K20F	Tape & Reel
44.2 K OHM	1/4W	1%	±100 ppm	5043ED44K20F	Tape & Reel
45.3 K OHM	1/4W	1%	±100 ppm	5043ED45K30F	Tape & Reel
46.4 K OHM	1/4W	1%	±100 ppm	5043ED46K40F	Tape & Reel
47 K OHM	1/4W	1%	±100 ppm	5043ED47K00F	Tape & Reel
47.5 K OHM	1/4W	1%	±100 ppm	5043ED47K50F	Tape & Reel
48.7 K OHM	1/4W	1%	±100 ppm	5043ED48K70F	Tape & Reel
49.9 K OHM	1/4W	1%	±100 ppm	5043ED49K90F	Tape & Reel
51 K OHM	1/4W	1%	±100 ppm	5043ED51K00F	Tape & Reel
51.1 K OHM	1/4W	1%	±100 ppm	5043ED51K10F	Tape & Reel
52.3 K OHM	1/4W	1%	±100 ppm	5043ED52K30F	Tape & Reel
53.6 K OHM	1/4W	1%	±100 ppm	5043ED53K60F	Tape & Reel
54.9 K OHM	1/4W	1%	±100 ppm	5043ED54K90F	Tape & Reel
56 K OHM	1/4W	1%	±100 ppm	5043ED56K00F	Tape & Reel
56.2 K OHM	1/4W	1%	±100 ppm	5043ED56K20F	Tape & Reel
57.6 K OHM	1/4W	1%	±100 ppm	5043ED57K60F	Tape & Reel
59 K OHM	1/4W	1%	±100 ppm	5043ED59K00F	Tape & Reel
60.4 K OHM	1/4W	1%	±100 ppm	5043ED60K40F	Tape & Reel
61.9 K OHM	1/4W	1%	±100 ppm	5043ED61K90F	Tape & Reel
62 K OHM	1/4W	1%	±100 ppm	5043ED62K00F	Tape & Reel
63.4 K OHM	1/4W	1%	±100 ppm	5043ED63K40F	Tape & Reel
64.9 K OHM	1/4W	1%	±100 ppm	5043ED64K90F	Tape & Reel
66.5 K OHM	1/4W	1%	±100 ppm	5043ED66K50F	Tape & Reel
68 K OHM	1/4W	1%	±100 ppm	5043ED68K00F	Tape & Reel
68.1 K OHM	1/4W	1%	±100 ppm	5043ED68K10F	Tape & Reel
69.8 K OHM	1/4W	1%	±100 ppm	5043ED69K80F	Tape & Reel
71.5 K OHM	1/4W	1%	±100 ppm	5043ED71K50F	Tape & Reel
73.2 K OHM	1/4W	1%	±100 ppm	5043ED73K20F	Tape & Reel
75 K OHM	1/4W	1%	±100 ppm	5043ED75K00F	Tape & Reel
76.8 K OHM	1/4W	1%	±100 ppm	5043ED76K80F	Tape & Reel
78.7 K OHM	1/4W	1%	±100 ppm	5043ED78K70F	Tape & Reel
80.6 K OHM	1/4W	1%	±100 ppm	5043ED80K60F	Tape & Reel
82 K OHM	1/4W	1%	±100 ppm	5043ED82K00F	Tape & Reel
82.5 K OHM	1/4W	1%	±100 ppm	5043ED82K50F	Tape & Reel
84.5 K OHM	1/4W	1%	±100 ppm	5043ED84K50F	Tape & Reel
86.6 K OHM	1/4W	1%	±100 ppm	5043ED86K60F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
88.7 K OHM	1/4W	1%	±100 ppm	5043ED88K70F	Tape & Reel
90.9 K OHM	1/4W	1%	±100 ppm	5043ED90K90F	Tape & Reel
91 K OHM	1/4W	1%	±100 ppm	5043ED91K00F	Tape & Reel
93.1 K OHM	1/4W	1%	±100 ppm	5043ED93K10F	Tape & Reel
95.3 K OHM	1/4W	1%	±100 ppm	5043ED95K30F	Tape & Reel
97.6 K OHM	1/4W	1%	±100 ppm	5043ED97K60F	Tape & Reel
100 K OHM	1/4W	1%	±100 ppm	5043ED100K0F	Tape & Reel
102 K OHM	1/4W	1%	±100 ppm	5043ED102K0F	Tape & Reel
105 K OHM	1/4W	1%	±100 ppm	5043ED105K0F	Tape & Reel
107 K OHM	1/4W	1%	±100 ppm	5043ED107K0F	Tape & Reel
110 K OHM	1/4W	1%	±100 ppm	5043ED110K0F	Tape & Reel
113 K OHM	1/4W	1%	±100 ppm	5043ED113K0F	Tape & Reel
115 K OHM	1/4W	1%	±100 ppm	5043ED115K0F	Tape & Reel
118 K OHM	1/4W	1%	±100 ppm	5043ED118K0F	Tape & Reel
120 K OHM	1/4W	1%	±100 ppm	5043ED120K0F	Tape & Reel
121 K OHM	1/4W	1%	±100 ppm	5043ED121K0F	Tape & Reel
124 K OHM	1/4W	1%	±100 ppm	5043ED124K0F	Tape & Reel
127 K OHM	1/4W	1%	±100 ppm	5043ED127K0F	Tape & Reel
130 K OHM	1/4W	1%	±100 ppm	5043ED130K0F	Tape & Reel
133 K OHM	1/4W	1%	±100 ppm	5043ED133K0F	Tape & Reel
137 K OHM	1/4W	1%	±100 ppm	5043ED137K0F	Tape & Reel
140 K OHM	1/4W	1%	±100 ppm	5043ED140K0F	Tape & Reel
143 K OHM	1/4W	1%	±100 ppm	5043ED143K0F	Tape & Reel
147 K OHM	1/4W	1%	±100 ppm	5043ED147K0F	Tape & Reel
150 K OHM	1/4W	1%	±100 ppm	5043ED150K0F	Tape & Reel
154 K OHM	1/4W	1%	±100 ppm	5043ED154K0F	Tape & Reel
158 K OHM	1/4W	1%	±100 ppm	5043ED158K0F	Tape & Reel
160 K OHM	1/4W	1%	±100 ppm	5043ED160K0F	Tape & Reel
162 K OHM	1/4W	1%	±100 ppm	5043ED162K0F	Tape & Reel
165 K OHM	1/4W	1%	±100 ppm	5043ED165K0F	Tape & Reel
169 K OHM	1/4W	1%	±100 ppm	5043ED169K0F	Tape & Reel
174 K OHM	1/4W	1%	±100 ppm	5043ED174K0F	Tape & Reel
178 K OHM	1/4W	1%	±100 ppm	5043ED178K0F	Tape & Reel
180 K OHM	1/4W	1%	±100 ppm	5043ED180K0F	Tape & Reel
182 K OHM	1/4W	1%	±100 ppm	5043ED182K0F	Tape & Reel
187 K OHM	1/4W	1%	±100 ppm	5043ED187K0F	Tape & Reel
191 K OHM	1/4W	1%	±100 ppm	5043ED191K0F	Tape & Reel
196 K OHM	1/4W	1%	±100 ppm	5043ED196K0F	Tape & Reel
200 K OHM	1/4W	1%	±100 ppm	5043ED200K0F	Tape & Reel
205 K OHM	1/4W	1%	±100 ppm	5043ED205K0F	Tape & Reel
210 K OHM	1/4W	1%	±100 ppm	5043ED210K0F	Tape & Reel
215 K OHM	1/4W	1%	±100 ppm	5043ED215K0F	Tape & Reel
220 K OHM	1/4W	1%	±100 ppm	5043ED220K0F	Tape & Reel
221 K OHM	1/4W	1%	±100 ppm	5043ED221K0F	Tape & Reel
226 K OHM	1/4W	1%	±100 ppm	5043ED226K0F	Tape & Reel
232 K OHM	1/4W	1%	±100 ppm	5043ED232K0F	Tape & Reel
237 K OHM	1/4W	1%	±100 ppm	5043ED237K0F	Tape & Reel
240 K OHM	1/4W	1%	±100 ppm	5043ED240K0F	Tape & Reel
243 K OHM	1/4W	1%	±100 ppm	5043ED243K0F	Tape & Reel
249 K OHM	1/4W	1%	±100 ppm	5043ED249K0F	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Metal Film Axial Lead Resistor

Series 5043ED

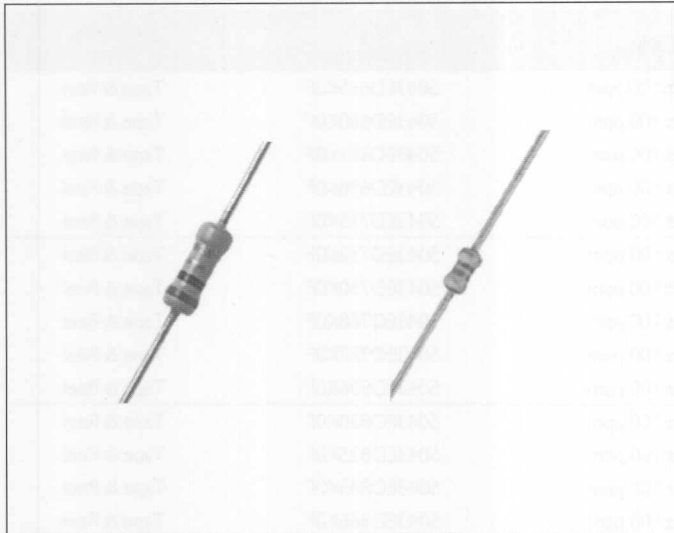
PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
255 K OHM	1/4W	1%	±100 ppm	5043ED255K0F	Tape & Reel
261 K OHM	1/4W	1%	±100 ppm	5043ED261K0F	Tape & Reel
267 K OHM	1/4W	1%	±100 ppm	5043ED267K0F	Tape & Reel
270 K OHM	1/4W	1%	±100 ppm	5043ED270K0F	Tape & Reel
274 K OHM	1/4W	1%	±100 ppm	5043ED274K0F	Tape & Reel
280 K OHM	1/4W	1%	±100 ppm	5043ED280K0F	Tape & Reel
287 K OHM	1/4W	1%	±100 ppm	5043ED287K0F	Tape & Reel
294 K OHM	1/4W	1%	±100 ppm	5043ED294K0F	Tape & Reel
300 K OHM	1/4W	1%	±100 ppm	5043ED300K0F	Tape & Reel
301 K OHM	1/4W	1%	±100 ppm	5043ED301K0F	Tape & Reel
309 K OHM	1/4W	1%	±100 ppm	5043ED309K0F	Tape & Reel
316 K OHM	1/4W	1%	±100 ppm	5043ED316K0F	Tape & Reel
324 K OHM	1/4W	1%	±100 ppm	5043ED324K0F	Tape & Reel
330 K OHM	1/4W	1%	±100 ppm	5043ED330K0F	Tape & Reel
332 K OHM	1/4W	1%	±100 ppm	5043ED332K0F	Tape & Reel
340 K OHM	1/4W	1%	±100 ppm	5043ED340K0F	Tape & Reel
348 K OHM	1/4W	1%	±100 ppm	5043ED348K0F	Tape & Reel
357 K OHM	1/4W	1%	±100 ppm	5043ED357K0F	Tape & Reel
360 K OHM	1/4W	1%	±100 ppm	5043ED360K0F	Tape & Reel
365 K OHM	1/4W	1%	±100 ppm	5043ED365K0F	Tape & Reel
374 K OHM	1/4W	1%	±100 ppm	5043ED374K0F	Tape & Reel
383 K OHM	1/4W	1%	±100 ppm	5043ED383K0F	Tape & Reel
390 K OHM	1/4W	1%	±100 ppm	5043ED390K0F	Tape & Reel
392 K OHM	1/4W	1%	±100 ppm	5043ED392K0F	Tape & Reel
402 K OHM	1/4W	1%	±100 ppm	5043ED402K0F	Tape & Reel
412 K OHM	1/4W	1%	±100 ppm	5043ED412K0F	Tape & Reel
422 K OHM	1/4W	1%	±100 ppm	5043ED422K0F	Tape & Reel
430 K OHM	1/4W	1%	±100 ppm	5043ED430K0F	Tape & Reel
432 K OHM	1/4W	1%	±100 ppm	5043ED432K0F	Tape & Reel
442 K OHM	1/4W	1%	±100 ppm	5043ED442K0F	Tape & Reel
453 K OHM	1/4W	1%	±100 ppm	5043ED453K0F	Tape & Reel
464 K OHM	1/4W	1%	±100 ppm	5043ED464K0F	Tape & Reel
470 K OHM	1/4W	1%	±100 ppm	5043ED470K0F	Tape & Reel
475 K OHM	1/4W	1%	±100 ppm	5043ED475K0F	Tape & Reel
487 K OHM	1/4W	1%	±100 ppm	5043ED487K0F	Tape & Reel
499 K OHM	1/4W	1%	±100 ppm	5043ED499K0F	Tape & Reel
510 K OHM	1/4W	1%	±100 ppm	5043ED510K0F	Tape & Reel
511 K OHM	1/4W	1%	±100 ppm	5043ED511K0F	Tape & Reel
523 K OHM	1/4W	1%	±100 ppm	5043ED523K0F	Tape & Reel
536 K OHM	1/4W	1%	±100 ppm	5043ED536K0F	Tape & Reel
549 K OHM	1/4W	1%	±100 ppm	5043ED549K0F	Tape & Reel
560 K OHM	1/4W	1%	±100 ppm	5043ED560K0F	Tape & Reel
562 K OHM	1/4W	1%	±100 ppm	5043ED562K0F	Tape & Reel
576 K OHM	1/4W	1%	±100 ppm	5043ED576K0F	Tape & Reel
590 K OHM	1/4W	1%	±100 ppm	5043ED590K0F	Tape & Reel
604 K OHM	1/4W	1%	±100 ppm	5043ED604K0F	Tape & Reel
619 K OHM	1/4W	1%	±100 ppm	5043ED619K0F	Tape & Reel
620 K OHM	1/4W	1%	±100 ppm	5043ED620K0F	Tape & Reel
634 K OHM	1/4W	1%	±100 ppm	5043ED634K0F	Tape & Reel
649 K OHM	1/4W	1%	±100 ppm	5043ED649K0F	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
665 K OHM	1/4W	1%	±100 ppm	5043ED665K0F	Tape & Reel
680 K OHM	1/4W	1%	±100 ppm	5043ED680K0F	Tape & Reel
681 K OHM	1/4W	1%	±100 ppm	5043ED681K0F	Tape & Reel
698 K OHM	1/4W	1%	±100 ppm	5043ED698K0F	Tape & Reel
715 K OHM	1/4W	1%	±100 ppm	5043ED715K0F	Tape & Reel
732 K OHM	1/4W	1%	±100 ppm	5043ED732K0F	Tape & Reel
750 K OHM	1/4W	1%	±100 ppm	5043ED750K0F	Tape & Reel
768 K OHM	1/4W	1%	±100 ppm	5043ED768K0F	Tape & Reel
787 K OHM	1/4W	1%	±100 ppm	5043ED787K0F	Tape & Reel
806 K OHM	1/4W	1%	±100 ppm	5043ED806K0F	Tape & Reel
820 K OHM	1/4W	1%	±100 ppm	5043ED820K0F	Tape & Reel
825 K OHM	1/4W	1%	±100 ppm	5043ED825K0F	Tape & Reel
845 K OHM	1/4W	1%	±100 ppm	5043ED845K0F	Tape & Reel
866 K OHM	1/4W	1%	±100 ppm	5043ED866K0F	Tape & Reel
887 K OHM	1/4W	1%	±100 ppm	5043ED887K0F	Tape & Reel
909 K OHM	1/4W	1%	±100 ppm	5043ED909K0F	Tape & Reel
910 K OHM	1/4W	1%	±100 ppm	5043ED910K0F	Tape & Reel
931 K OHM	1/4W	1%	±100 ppm	5043ED931K0F	Tape & Reel
953 K OHM	1/4W	1%	±100 ppm	5043ED953K0F	Tape & Reel
976 K OHM	1/4W	1%	±100 ppm	5043ED976K0F	Tape & Reel
1 M OHM	1/4W	1%	±100 ppm	5043ED1M000F	Tape & Reel



Metal Film Resistor Series 5053H

1/2 Watt
1% & 5% Tolerance
Miniature Size

50 **5** **3** **H** **D** **470K0** **F**

Power Rating
5 = 1/2 W

Encapsulation
3 = Conformal

Style
H = Standard Miniature

Temperature Coefficient

Resistance Value
470K0

Tolerance
J = 5%
F = 1%

Fixed Axial Resistor

Marking

Color Band Marking

Packaging

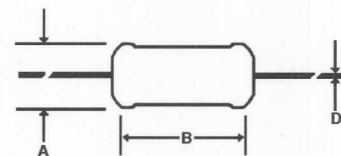
Tape & Reel - 5,000 piece reels
 Ammo Pack - 5,000 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %	Max Voltage
5053H	1/2	10R-1M 1M-10M	±100 ±250	5%	350
	1/2	10R-1M	±100	1%	350

Dimensions

A max Inches (mm)	B min Inches (mm)	D nom Inches (mm)
0.098 (2.5)	0.256 (6.5)	0.024±.002 (0.6±.05)



Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.0 OHM	1/2W	5%	±100 ppm	5053HM1R000J	Tape & Reel
1.1 OHM	1/2W	5%	±100 ppm	5053HM1R100J	Tape & Reel
1.2 OHM	1/2W	5%	±100 ppm	5053HM1R200J	Tape & Reel
1.3 OHM	1/2W	5%	±100 ppm	5053HM1R300J	Tape & Reel
1.5 OHM	1/2W	5%	±100 ppm	5053HM1R500J	Tape & Reel
1.6 OHM	1/2W	5%	±100 ppm	5053HM1R600J	Tape & Reel
1.8 OHM	1/2W	5%	±100 ppm	5053HM1R800J	Tape & Reel
2.0 OHM	1/2W	5%	±100 ppm	5053HM2R000J	Tape & Reel
2.2 OHM	1/2W	5%	±100 ppm	5053HM2R200J	Tape & Reel
2.4 OHM	1/2W	5%	±100 ppm	5053HM2R400J	Tape & Reel
2.7 OHM	1/2W	5%	±100 ppm	5053HM2R700J	Tape & Reel
3.0 OHM	1/2W	5%	±100 ppm	5053HM3R000J	Tape & Reel
3.3 OHM	1/2W	5%	±100 ppm	5053HM3R300J	Tape & Reel
3.6 OHM	1/2W	5%	±100 ppm	5053HM3R600J	Tape & Reel
3.9 OHM	1/2W	5%	±100 ppm	5053HM3R900J	Tape & Reel
4.3 OHM	1/2W	5%	±100 ppm	5053HM4R300J	Tape & Reel
4.7 OHM	1/2W	5%	±100 ppm	5053HM4R700J	Tape & Reel
5.1 OHM	1/2W	5%	±100 ppm	5053HM5R100J	Tape & Reel
5.6 OHM	1/2W	5%	±100 ppm	5053HM5R600J	Tape & Reel
6.2 OHM	1/2W	5%	±100 ppm	5053HM6R200J	Tape & Reel
6.8 OHM	1/2W	5%	±100 ppm	5053HM6R800J	Tape & Reel
7.5 OHM	1/2W	5%	±100 ppm	5053HM7R500J	Tape & Reel
8.2 OHM	1/2W	5%	±100 ppm	5053HM8R200J	Tape & Reel
9.1 OHM	1/2W	5%	±100 ppm	5053HM9R100J	Tape & Reel
10 OHM	1/2W	5%	±100 ppm	5053HM10R00J	Tape & Reel
11 OHM	1/2W	5%	±100 ppm	5053HM11R00J	Tape & Reel
12 OHM	1/2W	5%	±100 ppm	5053HM12R00J	Tape & Reel
13 OHM	1/2W	5%	±100 ppm	5053HM13R00J	Tape & Reel
15 OHM	1/2W	5%	±100 ppm	5053HM15R00J	Tape & Reel
16 OHM	1/2W	5%	±100 ppm	5053HM16R00J	Tape & Reel
18 OHM	1/2W	5%	±100 ppm	5053HM18R00J	Tape & Reel
20 OHM	1/2W	5%	±100 ppm	5053HM20R00J	Tape & Reel
22 OHM	1/2W	5%	±100 ppm	5053HM22R00J	Tape & Reel
24 OHM	1/2W	5%	±100 ppm	5053HM24R00J	Tape & Reel
27 OHM	1/2W	5%	±100 ppm	5053HM27R00J	Tape & Reel
30 OHM	1/2W	5%	±100 ppm	5053HM30R00J	Tape & Reel
33 OHM	1/2W	5%	±100 ppm	5053HM33R00J	Tape & Reel
36 OHM	1/2W	5%	±100 ppm	5053HM36R00J	Tape & Reel
39 OHM	1/2W	5%	±100 ppm	5053HM39R00J	Tape & Reel
43 OHM	1/2W	5%	±100 ppm	5053HM43R00J	Tape & Reel
47 OHM	1/2W	5%	±100 ppm	5053HM47R00J	Tape & Reel
51 OHM	1/2W	5%	±100 ppm	5053HM51R00J	Tape & Reel
56 OHM	1/2W	5%	±100 ppm	5053HM56R00J	Tape & Reel
62 OHM	1/2W	5%	±100 ppm	5053HM62R00J	Tape & Reel
68 OHM	1/2W	5%	±100 ppm	5053HM68R00J	Tape & Reel
75 OHM	1/2W	5%	±100 ppm	5053HM75R00J	Tape & Reel
82 OHM	1/2W	5%	±100 ppm	5053HM82R00J	Tape & Reel
91 OHM	1/2W	5%	±100 ppm	5053HM91R00J	Tape & Reel
100 OHM	1/2W	5%	±100 ppm	5053HM100R0J	Tape & Reel
110 OHM	1/2W	5%	±100 ppm	5053HM110R0J	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HM

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	1/2W	5%	±100 ppm	5053HM120R0J	Tape & Reel
130 OHM	1/2W	5%	±100 ppm	5053HM130R0J	Tape & Reel
150 OHM	1/2W	5%	±100 ppm	5053HM150R0J	Tape & Reel
160 OHM	1/2W	5%	±100 ppm	5053HM160R0J	Tape & Reel
180 OHM	1/2W	5%	±100 ppm	5053HM180R0J	Tape & Reel
200 OHM	1/2W	5%	±100 ppm	5053HM200R0J	Tape & Reel
220 OHM	1/2W	5%	±100 ppm	5053HM220R0J	Tape & Reel
240 OHM	1/2W	5%	±100 ppm	5053HM240R0J	Tape & Reel
270 OHM	1/2W	5%	±100 ppm	5053HM270R0J	Tape & Reel
300 OHM	1/2W	5%	±100 ppm	5053HM300R0J	Tape & Reel
330 OHM	1/2W	5%	±100 ppm	5053HM330R0J	Tape & Reel
360 OHM	1/2W	5%	±100 ppm	5053HM360R0J	Tape & Reel
390 OHM	1/2W	5%	±100 ppm	5053HM390R0J	Tape & Reel
430 OHM	1/2W	5%	±100 ppm	5053HM430R0J	Tape & Reel
470 OHM	1/2W	5%	±100 ppm	5053HM470R0J	Tape & Reel
510 OHM	1/2W	5%	±100 ppm	5053HM510R0J	Tape & Reel
560 OHM	1/2W	5%	±100 ppm	5053HM560R0J	Tape & Reel
620 OHM	1/2W	5%	±100 ppm	5053HM620R0J	Tape & Reel
680 OHM	1/2W	5%	±100 ppm	5053HM680R0J	Tape & Reel
750 OHM	1/2W	5%	±100 ppm	5053HM750R0J	Tape & Reel
820 OHM	1/2W	5%	±100 ppm	5053HM820R0J	Tape & Reel
910 OHM	1/2W	5%	±100 ppm	5053HM910R0J	Tape & Reel
1.0 K OHM	1/2W	5%	±100 ppm	5053HM1K000J	Tape & Reel
1.1 K OHM	1/2W	5%	±100 ppm	5053HM1K100J	Tape & Reel
1.2 K OHM	1/2W	5%	±100 ppm	5053HM1K200J	Tape & Reel
1.3 K OHM	1/2W	5%	±100 ppm	5053HM1K300J	Tape & Reel
1.5 K OHM	1/2W	5%	±100 ppm	5053HM1K500J	Tape & Reel
1.6 K OHM	1/2W	5%	±100 ppm	5053HM1K600J	Tape & Reel
1.8 K OHM	1/2W	5%	±100 ppm	5053HM1K800J	Tape & Reel
2.0 K OHM	1/2W	5%	±100 ppm	5053HM2K000J	Tape & Reel
2.2 K OHM	1/2W	5%	±100 ppm	5053HM2K200J	Tape & Reel
2.4 K OHM	1/2W	5%	±100 ppm	5053HM2K400J	Tape & Reel
2.7 K OHM	1/2W	5%	±100 ppm	5053HM2K700J	Tape & Reel
3.0 K OHM	1/2W	5%	±100 ppm	5053HM3K000J	Tape & Reel
3.3 K OHM	1/2W	5%	±100 ppm	5053HM3K300J	Tape & Reel
3.6 K OHM	1/2W	5%	±100 ppm	5053HM3K600J	Tape & Reel
3.9 K OHM	1/2W	5%	±100 ppm	5053HM3K900J	Tape & Reel
4.3 K OHM	1/2W	5%	±100 ppm	5053HM4K300J	Tape & Reel
4.7 K OHM	1/2W	5%	±100 ppm	5053HM4K700J	Tape & Reel
5.1 K OHM	1/2W	5%	±100 ppm	5053HM5K100J	Tape & Reel
5.6 K OHM	1/2W	5%	±100 ppm	5053HM5K600J	Tape & Reel
6.2 K OHM	1/2W	5%	±100 ppm	5053HM6K200J	Tape & Reel
6.8 K OHM	1/2W	5%	±100 ppm	5053HM6K800J	Tape & Reel
7.5 K OHM	1/2W	5%	±100 ppm	5053HM7K500J	Tape & Reel
8.2 K OHM	1/2W	5%	±100 ppm	5053HM8K200J	Tape & Reel
9.1 K OHM	1/2W	5%	±100 ppm	5053HM9K100J	Tape & Reel
10 K OHM	1/2W	5%	±100 ppm	5053HM10K00J	Tape & Reel
11 K OHM	1/2W	5%	±100 ppm	5053HM11K00J	Tape & Reel
12 K OHM	1/2W	5%	±100 ppm	5053HM12K00J	Tape & Reel
13 K OHM	1/2W	5%	±100 ppm	5053HM13K00J	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15 K OHM	1/2W	5%	±100 ppm	5053HM15K00J	Tape & Reel
16 K OHM	1/2W	5%	±100 ppm	5053HM16K00J	Tape & Reel
18 K OHM	1/2W	5%	±100 ppm	5053HM18K00J	Tape & Reel
20 K OHM	1/2W	5%	±100 ppm	5053HM20K00J	Tape & Reel
22 K OHM	1/2W	5%	±100 ppm	5053HM22K00J	Tape & Reel
24 K OHM	1/2W	5%	±100 ppm	5053HM24K00J	Tape & Reel
27 K OHM	1/2W	5%	±100 ppm	5053HM27K00J	Tape & Reel
30 K OHM	1/2W	5%	±100 ppm	5053HM30K00J	Tape & Reel
33 K OHM	1/2W	5%	±100 ppm	5053HM33K00J	Tape & Reel
36 K OHM	1/2W	5%	±100 ppm	5053HM36K00J	Tape & Reel
39 K OHM	1/2W	5%	±100 ppm	5053HM39K00J	Tape & Reel
43 K OHM	1/2W	5%	±100 ppm	5053HM43K00J	Tape & Reel
47 K OHM	1/2W	5%	±100 ppm	5053HM47K00J	Tape & Reel
51 K OHM	1/2W	5%	±100 ppm	5053HM51K00J	Tape & Reel
56 K OHM	1/2W	5%	±100 ppm	5053HM56K00J	Tape & Reel
62 K OHM	1/2W	5%	±100 ppm	5053HM62K00J	Tape & Reel
68 K OHM	1/2W	5%	±100 ppm	5053HM68K00J	Tape & Reel
75 K OHM	1/2W	5%	±100 ppm	5053HM75K00J	Tape & Reel
82 K OHM	1/2W	5%	±100 ppm	5053HM82K00J	Tape & Reel
91 K OHM	1/2W	5%	±100 ppm	5053HM91K00J	Tape & Reel
100 K OHM	1/2W	5%	±100 ppm	5053HM100K0J	Tape & Reel
110 K OHM	1/2W	5%	±100 ppm	5053HM110K0J	Tape & Reel
120 K OHM	1/2W	5%	±100 ppm	5053HM120K0J	Tape & Reel
130 K OHM	1/2W	5%	±100 ppm	5053HM130K0J	Tape & Reel
150 K OHM	1/2W	5%	±100 ppm	5053HM150K0J	Tape & Reel
160 K OHM	1/2W	5%	±100 ppm	5053HM160K0J	Tape & Reel
180 K OHM	1/2W	5%	±100 ppm	5053HM180K0J	Tape & Reel
200 K OHM	1/2W	5%	±100 ppm	5053HM200K0J	Tape & Reel
220 K OHM	1/2W	5%	±100 ppm	5053HM220K0J	Tape & Reel
240 K OHM	1/2W	5%	±100 ppm	5053HM240K0J	Tape & Reel
270 K OHM	1/2W	5%	±100 ppm	5053HM270K0J	Tape & Reel
300 K OHM	1/2W	5%	±100 ppm	5053HM300K0J	Tape & Reel
330 K OHM	1/2W	5%	±100 ppm	5053HM330K0J	Tape & Reel
360 K OHM	1/2W	5%	±100 ppm	5053HM360K0J	Tape & Reel
390 K OHM	1/2W	5%	±100 ppm	5053HM390K0J	Tape & Reel
430 K OHM	1/2W	5%	±100 ppm	5053HM430K0J	Tape & Reel
470 K OHM	1/2W	5%	±100 ppm	5053HM470K0J	Tape & Reel
510 K OHM	1/2W	5%	±100 ppm	5053HM510K0J	Tape & Reel
560 K OHM	1/2W	5%	±100 ppm	5053HM560K0J	Tape & Reel
620 K OHM	1/2W	5%	±100 ppm	5053HM620K0J	Tape & Reel
680 K OHM	1/2W	5%	±100 ppm	5053HM680K0J	Tape & Reel
750 K OHM	1/2W	5%	±100 ppm	5053HM750K0J	Tape & Reel
820 K OHM	1/2W	5%	±100 ppm	5053HM820K0J	Tape & Reel
910 K OHM	1/2W	5%	±100 ppm	5053HM910K0J	Tape & Reel
1.0 MOHM	1/2W	5%	±100 ppm	5053HM1M00J	Tape & Reel
1.1 MOHM	1/2W	5%	±250 ppm	5053HM1M100J	Tape & Reel
1.2 MOHM	1/2W	5%	±250 ppm	5053HM1M200J	Tape & Reel
1.3 MOHM	1/2W	5%	±250 ppm	5053HM1M300J	Tape & Reel
1.5 MOHM	1/2W	5%	±250 ppm	5053HM1M500J	Tape & Reel
1.6 MOHM	1/2W	5%	±250 ppm	5053HM1M600J	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HM

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.8 M OHM	1/2W	5%	±250 ppm	5053HM1M800J	Tape & Reel
2.0 M OHM	1/2W	5%	±250 ppm	5053HM2M000J	Tape & Reel
2.2 M OHM	1/2W	5%	±250 ppm	5053HM2M200J	Tape & Reel
2.4 M OHM	1/2W	5%	±250 ppm	5053HM2M400J	Tape & Reel
2.7 M OHM	1/2W	5%	±250 ppm	5053HM2M700J	Tape & Reel
3.0 M OHM	1/2W	5%	±250 ppm	5053HM3M000J	Tape & Reel
3.3 M OHM	1/2W	5%	±250 ppm	5053HM3M300J	Tape & Reel
3.6 M OHM	1/2W	5%	±250 ppm	5053HM3M600J	Tape & Reel
3.9 M OHM	1/2W	5%	±250 ppm	5053HM3M900J	Tape & Reel
4.3 M OHM	1/2W	5%	±250 ppm	5053HM4M300J	Tape & Reel
4.7 M OHM	1/2W	5%	±250 ppm	5053HM4M700J	Tape & Reel
5.1 M OHM	1/2W	5%	±250 ppm	5053HM5M100J	Tape & Reel
5.6 M OHM	1/2W	5%	±250 ppm	5053HM5M600J	Tape & Reel
6.2 M OHM	1/2W	5%	±250 ppm	5053HM6M200J	Tape & Reel
6.8 M OHM	1/2W	5%	±250 ppm	5053HM6M800J	Tape & Reel
7.5 M OHM	1/2W	5%	±250 ppm	5053HM7M500J	Tape & Reel
8.2 M OHM	1/2W	5%	±250 ppm	5053HM8M200J	Tape & Reel
9.1 M OHM	1/2W	5%	±250 ppm	5053HM9M100J	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
10.0 OHM	1/2W	1%	±100 ppm	5053HD10R00F	Tape & Reel
10.2 OHM	1/2W	1%	±100 ppm	5053HD10R20F	Tape & Reel
10.5 OHM	1/2W	1%	±100 ppm	5053HD10R50F	Tape & Reel
10.7 OHM	1/2W	1%	±100 ppm	5053HD10R70F	Tape & Reel
11.0 OHM	1/2W	1%	±100 ppm	5053HD11R00F	Tape & Reel
11.3 OHM	1/2W	1%	±100 ppm	5053HD11R30F	Tape & Reel
11.5 OHM	1/2W	1%	±100 ppm	5053HD11R50F	Tape & Reel
11.8 OHM	1/2W	1%	±100 ppm	5053HD11R80F	Tape & Reel
12.0 OHM	1/2W	1%	±100 ppm	5053HD12R00F	Tape & Reel
12.1 OHM	1/2W	1%	±100 ppm	5053HD12R10F	Tape & Reel
12.4 OHM	1/2W	1%	±100 ppm	5053HD12R40F	Tape & Reel
12.7 OHM	1/2W	1%	±100 ppm	5053HD12R70F	Tape & Reel
13.0 OHM	1/2W	1%	±100 ppm	5053HD13R00F	Tape & Reel
13.3 OHM	1/2W	1%	±100 ppm	5053HD13R30F	Tape & Reel
13.7 OHM	1/2W	1%	±100 ppm	5053HD13R70F	Tape & Reel
14.0 OHM	1/2W	1%	±100 ppm	5053HD14R00F	Tape & Reel
14.3 OHM	1/2W	1%	±100 ppm	5053HD14R30F	Tape & Reel
14.7 OHM	1/2W	1%	±100 ppm	5053HD14R70F	Tape & Reel
15.0 OHM	1/2W	1%	±100 ppm	5053HD15R00F	Tape & Reel
15.4 OHM	1/2W	1%	±100 ppm	5053HD15R40F	Tape & Reel
15.8 OHM	1/2W	1%	±100 ppm	5053HD15R80F	Tape & Reel
16.0 OHM	1/2W	1%	±100 ppm	5053HD16R00F	Tape & Reel
16.2 OHM	1/2W	1%	±100 ppm	5053HD16R20F	Tape & Reel
16.5 OHM	1/2W	1%	±100 ppm	5053HD16R50F	Tape & Reel
16.9 OHM	1/2W	1%	±100 ppm	5053HD16R90F	Tape & Reel
17.4 OHM	1/2W	1%	±100 ppm	5053HD17R40F	Tape & Reel
17.8 OHM	1/2W	1%	±100 ppm	5053HD17R80F	Tape & Reel
18.0 OHM	1/2W	1%	±100 ppm	5053HD18R00F	Tape & Reel
18.2 OHM	1/2W	1%	±100 ppm	5053HD18R20F	Tape & Reel
18.7 OHM	1/2W	1%	±100 ppm	5053HD18R70F	Tape & Reel
19.1 OHM	1/2W	1%	±100 ppm	5053HD19R10F	Tape & Reel
19.6 OHM	1/2W	1%	±100 ppm	5053HD19R60F	Tape & Reel
20.0 OHM	1/2W	1%	±100 ppm	5053HD20R00F	Tape & Reel
20.5 OHM	1/2W	1%	±100 ppm	5053HD20R50F	Tape & Reel
21.0 OHM	1/2W	1%	±100 ppm	5053HD21R00F	Tape & Reel
21.5 OHM	1/2W	1%	±100 ppm	5053HD21R50F	Tape & Reel
22.0 OHM	1/2W	1%	±100 ppm	5053HD22R00F	Tape & Reel
22.1 OHM	1/2W	1%	±100 ppm	5053HD22R10F	Tape & Reel
22.6 OHM	1/2W	1%	±100 ppm	5053HD22R60F	Tape & Reel
23.2 OHM	1/2W	1%	±100 ppm	5053HD23R20F	Tape & Reel
23.7 OHM	1/2W	1%	±100 ppm	5053HD23R70F	Tape & Reel
24.0 OHM	1/2W	1%	±100 ppm	5053HD24R00F	Tape & Reel
24.3 OHM	1/2W	1%	±100 ppm	5053HD24R30F	Tape & Reel
24.9 OHM	1/2W	1%	±100 ppm	5053HD24R90F	Tape & Reel
25.5 OHM	1/2W	1%	±100 ppm	5053HD25R50F	Tape & Reel
26.1 OHM	1/2W	1%	±100 ppm	5053HD26R10F	Tape & Reel
26.7 OHM	1/2W	1%	±100 ppm	5053HD26R70F	Tape & Reel
27.0 OHM	1/2W	1%	±100 ppm	5053HD27R00F	Tape & Reel
27.4 OHM	1/2W	1%	±100 ppm	5053HD27R40F	Tape & Reel
28.0 OHM	1/2W	1%	±100 ppm	5053HD28R00F	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HD

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
28.7 OHM	1/2W	1%	±100 ppm	5053HD28R70F	Tape & Reel
29.4 OHM	1/2W	1%	±100 ppm	5053HD29R40F	Tape & Reel
30.0 OHM	1/2W	1%	±100 ppm	5053HD30R00F	Tape & Reel
30.1 OHM	1/2W	1%	±100 ppm	5053HD30R10F	Tape & Reel
30.9 OHM	1/2W	1%	±100 ppm	5053HD30R90F	Tape & Reel
31.6 OHM	1/2W	1%	±100 ppm	5053HD31R60F	Tape & Reel
32.4 OHM	1/2W	1%	±100 ppm	5053HD32R40F	Tape & Reel
33.0 OHM	1/2W	1%	±100 ppm	5053HD33R00F	Tape & Reel
33.2 OHM	1/2W	1%	±100 ppm	5053HD33R20F	Tape & Reel
34.0 OHM	1/2W	1%	±100 ppm	5053HD34R00F	Tape & Reel
34.8 OHM	1/2W	1%	±100 ppm	5053HD34R80F	Tape & Reel
35.7 OHM	1/2W	1%	±100 ppm	5053HD35R70F	Tape & Reel
36.0 OHM	1/2W	1%	±100 ppm	5053HD36R00F	Tape & Reel
36.5 OHM	1/2W	1%	±100 ppm	5053HD36R50F	Tape & Reel
37.4 OHM	1/2W	1%	±100 ppm	5053HD37R40F	Tape & Reel
38.3 OHM	1/2W	1%	±100 ppm	5053HD38R30F	Tape & Reel
39.0 OHM	1/2W	1%	±100 ppm	5053HD39R00F	Tape & Reel
39.2 OHM	1/2W	1%	±100 ppm	5053HD39R20F	Tape & Reel
40.2 OHM	1/2W	1%	±100 ppm	5053HD40R20F	Tape & Reel
41.2 OHM	1/2W	1%	±100 ppm	5053HD41R20F	Tape & Reel
42.2 OHM	1/2W	1%	±100 ppm	5053HD42R20F	Tape & Reel
43.0 OHM	1/2W	1%	±100 ppm	5053HD43R00F	Tape & Reel
43.2 OHM	1/2W	1%	±100 ppm	5053HD43R20F	Tape & Reel
44.2 OHM	1/2W	1%	±100 ppm	5053HD44R20F	Tape & Reel
45.3 OHM	1/2W	1%	±100 ppm	5053HD45R30F	Tape & Reel
46.4 OHM	1/2W	1%	±100 ppm	5053HD46R40F	Tape & Reel
47.0 OHM	1/2W	1%	±100 ppm	5053HD47R00F	Tape & Reel
47.5 OHM	1/2W	1%	±100 ppm	5053HD47R50F	Tape & Reel
48.7 OHM	1/2W	1%	±100 ppm	5053HD48R70F	Tape & Reel
49.9 OHM	1/2W	1%	±100 ppm	5053HD49R90F	Tape & Reel
51.0 OHM	1/2W	1%	±100 ppm	5053HD51R00F	Tape & Reel
51.1 OHM	1/2W	1%	±100 ppm	5053HD51R10F	Tape & Reel
52.3 OHM	1/2W	1%	±100 ppm	5053HD52R30F	Tape & Reel
53.6 OHM	1/2W	1%	±100 ppm	5053HD53R60F	Tape & Reel
54.9 OHM	1/2W	1%	±100 ppm	5053HD54R90F	Tape & Reel
56.0 OHM	1/2W	1%	±100 ppm	5053HD56R00F	Tape & Reel
56.2 OHM	1/2W	1%	±100 ppm	5053HD56R20F	Tape & Reel
57.6 OHM	1/2W	1%	±100 ppm	5053HD57R60F	Tape & Reel
59.0 OHM	1/2W	1%	±100 ppm	5053HD59R00F	Tape & Reel
60.4 OHM	1/2W	1%	±100 ppm	5053HD60R40F	Tape & Reel
61.9 OHM	1/2W	1%	±100 ppm	5053HD61R90F	Tape & Reel
62.0 OHM	1/2W	1%	±100 ppm	5053HD62R00F	Tape & Reel
63.4 OHM	1/2W	1%	±100 ppm	5053HD63R40F	Tape & Reel
64.9 OHM	1/2W	1%	±100 ppm	5053HD64R90F	Tape & Reel
66.5 OHM	1/2W	1%	±100 ppm	5053HD66R50F	Tape & Reel
68.0 OHM	1/2W	1%	±100 ppm	5053HD68R00F	Tape & Reel
68.1 OHM	1/2W	1%	±100 ppm	5053HD68R10F	Tape & Reel
69.8 OHM	1/2W	1%	±100 ppm	5053HD69R80F	Tape & Reel
71.5 OHM	1/2W	1%	±100 ppm	5053HD71R50F	Tape & Reel
73.2 OHM	1/2W	1%	±100 ppm	5053HD73R20F	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
75.0 OHM	1/2W	1%	±100 ppm	5053HD75R00F	Tape & Reel
76.8 OHM	1/2W	1%	±100 ppm	5053HD76R80F	Tape & Reel
78.7 OHM	1/2W	1%	±100 ppm	5053HD78R70F	Tape & Reel
80.6 OHM	1/2W	1%	±100 ppm	5053HD80R60F	Tape & Reel
82.0 OHM	1/2W	1%	±100 ppm	5053HD82R00F	Tape & Reel
82.5 OHM	1/2W	1%	±100 ppm	5053HD82R50F	Tape & Reel
84.5 OHM	1/2W	1%	±100 ppm	5053HD84R50F	Tape & Reel
86.6 OHM	1/2W	1%	±100 ppm	5053HD86R60F	Tape & Reel
88.7 OHM	1/2W	1%	±100 ppm	5053HD88R70F	Tape & Reel
90.9 OHM	1/2W	1%	±100 ppm	5053HD90R90F	Tape & Reel
91.0 OHM	1/2W	1%	±100 ppm	5053HD91R00F	Tape & Reel
93.1 OHM	1/2W	1%	±100 ppm	5053HD93R10F	Tape & Reel
95.3 OHM	1/2W	1%	±100 ppm	5053HD95R30F	Tape & Reel
97.6 OHM	1/2W	1%	±100 ppm	5053HD97R60F	Tape & Reel
100 OHM	1/2W	1%	±100 ppm	5053HD100R0F	Tape & Reel
102 OHM	1/2W	1%	±100 ppm	5053HD102R0F	Tape & Reel
105 OHM	1/2W	1%	±100 ppm	5053HD105R0F	Tape & Reel
107 OHM	1/2W	1%	±100 ppm	5053HD107R0F	Tape & Reel
110 OHM	1/2W	1%	±100 ppm	5053HD110R0F	Tape & Reel
113 OHM	1/2W	1%	±100 ppm	5053HD113R0F	Tape & Reel
115 OHM	1/2W	1%	±100 ppm	5053HD115R0F	Tape & Reel
118 OHM	1/2W	1%	±100 ppm	5053HD118R0F	Tape & Reel
120 OHM	1/2W	1%	±100 ppm	5053HD120R0F	Tape & Reel
121 OHM	1/2W	1%	±100 ppm	5053HD121R0F	Tape & Reel
124 OHM	1/2W	1%	±100 ppm	5053HD124R0F	Tape & Reel
127 OHM	1/2W	1%	±100 ppm	5053HD127R0F	Tape & Reel
130 OHM	1/2W	1%	±100 ppm	5053HD130R0F	Tape & Reel
133 OHM	1/2W	1%	±100 ppm	5053HD133R0F	Tape & Reel
137 OHM	1/2W	1%	±100 ppm	5053HD137R0F	Tape & Reel
140 OHM	1/2W	1%	±100 ppm	5053HD140R0F	Tape & Reel
143 OHM	1/2W	1%	±100 ppm	5053HD143R0F	Tape & Reel
147 OHM	1/2W	1%	±100 ppm	5053HD147R0F	Tape & Reel
150 OHM	1/2W	1%	±100 ppm	5053HD150R0F	Tape & Reel
154 OHM	1/2W	1%	±100 ppm	5053HD154R0F	Tape & Reel
158 OHM	1/2W	1%	±100 ppm	5053HD158R0F	Tape & Reel
160 OHM	1/2W	1%	±100 ppm	5053HD160R0F	Tape & Reel
162 OHM	1/2W	1%	±100 ppm	5053HD162R0F	Tape & Reel
165 OHM	1/2W	1%	±100 ppm	5053HD165R0F	Tape & Reel
169 OHM	1/2W	1%	±100 ppm	5053HD169R0F	Tape & Reel
174 OHM	1/2W	1%	±100 ppm	5053HD174R0F	Tape & Reel
178 OHM	1/2W	1%	±100 ppm	5053HD178R0F	Tape & Reel
180 OHM	1/2W	1%	±100 ppm	5053HD180R0F	Tape & Reel
182 OHM	1/2W	1%	±100 ppm	5053HD182R0F	Tape & Reel
187 OHM	1/2W	1%	±100 ppm	5053HD187R0F	Tape & Reel
191 OHM	1/2W	1%	±100 ppm	5053HD191R0F	Tape & Reel
196 OHM	1/2W	1%	±100 ppm	5053HD196R0F	Tape & Reel
200 OHM	1/2W	1%	±100 ppm	5053HD200R0F	Tape & Reel
205 OHM	1/2W	1%	±100 ppm	5053HD205R0F	Tape & Reel
210 OHM	1/2W	1%	±100 ppm	5053HD210R0F	Tape & Reel
215 OHM	1/2W	1%	±100 ppm	5053HD215R0F	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HD

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
220 OHM	1/2W	1%	±100 ppm	5053HD220R0F	Tape & Reel
221 OHM	1/2W	1%	±100 ppm	5053HD221R0F	Tape & Reel
226 OHM	1/2W	1%	±100 ppm	5053HD226R0F	Tape & Reel
232 OHM	1/2W	1%	±100 ppm	5053HD232R0F	Tape & Reel
237 OHM	1/2W	1%	±100 ppm	5053HD237R0F	Tape & Reel
240 OHM	1/2W	1%	±100 ppm	5053HD240R0F	Tape & Reel
243 OHM	1/2W	1%	±100 ppm	5053HD243R0F	Tape & Reel
249 OHM	1/2W	1%	±100 ppm	5053HD249R0F	Tape & Reel
255 OHM	1/2W	1%	±100 ppm	5053HD255R0F	Tape & Reel
261 OHM	1/2W	1%	±100 ppm	5053HD261R0F	Tape & Reel
267 OHM	1/2W	1%	±100 ppm	5053HD267R0F	Tape & Reel
270 OHM	1/2W	1%	±100 ppm	5053HD270R0F	Tape & Reel
274 OHM	1/2W	1%	±100 ppm	5053HD274R0F	Tape & Reel
280 OHM	1/2W	1%	±100 ppm	5053HD280R0F	Tape & Reel
287 OHM	1/2W	1%	±100 ppm	5053HD287R0F	Tape & Reel
294 OHM	1/2W	1%	±100 ppm	5053HD294R0F	Tape & Reel
300 OHM	1/2W	1%	±100 ppm	5053HD300R0F	Tape & Reel
301 OHM	1/2W	1%	±100 ppm	5053HD301R0F	Tape & Reel
309 OHM	1/2W	1%	±100 ppm	5053HD309R0F	Tape & Reel
316 OHM	1/2W	1%	±100 ppm	5053HD316R0F	Tape & Reel
324 OHM	1/2W	1%	±100 ppm	5053HD324R0F	Tape & Reel
330 OHM	1/2W	1%	±100 ppm	5053HD330R0F	Tape & Reel
332 OHM	1/2W	1%	±100 ppm	5053HD332R0F	Tape & Reel
340 OHM	1/2W	1%	±100 ppm	5053HD340R0F	Tape & Reel
348 OHM	1/2W	1%	±100 ppm	5053HD348R0F	Tape & Reel
357 OHM	1/2W	1%	±100 ppm	5053HD356R0F	Tape & Reel
360 OHM	1/2W	1%	±100 ppm	5053HD360R0F	Tape & Reel
365 OHM	1/2W	1%	±100 ppm	5053HD365R0F	Tape & Reel
374 OHM	1/2W	1%	±100 ppm	5053HD374R0F	Tape & Reel
383 OHM	1/2W	1%	±100 ppm	5053HD383R0F	Tape & Reel
390 OHM	1/2W	1%	±100 ppm	5053HD390R0F	Tape & Reel
392 OHM	1/2W	1%	±100 ppm	5053HD392R0F	Tape & Reel
402 OHM	1/2W	1%	±100 ppm	5053HD402R0F	Tape & Reel
412 OHM	1/2W	1%	±100 ppm	5053HD412R0F	Tape & Reel
422 OHM	1/2W	1%	±100 ppm	5053HD422R0F	Tape & Reel
430 OHM	1/2W	1%	±100 ppm	5053HD430R0F	Tape & Reel
432 OHM	1/2W	1%	±100 ppm	5053HD432R0F	Tape & Reel
442 OHM	1/2W	1%	±100 ppm	5053HD442R0F	Tape & Reel
453 OHM	1/2W	1%	±100 ppm	5053HD453R0F	Tape & Reel
464 OHM	1/2W	1%	±100 ppm	5053HD464R0F	Tape & Reel
470 OHM	1/2W	1%	±100 ppm	5053HD470R0F	Tape & Reel
475 OHM	1/2W	1%	±100 ppm	5053HD475R0F	Tape & Reel
487 OHM	1/2W	1%	±100 ppm	5053HD487R0F	Tape & Reel
499 OHM	1/2W	1%	±100 ppm	5053HD499R0F	Tape & Reel
510 OHM	1/2W	1%	±100 ppm	5053HD510R0F	Tape & Reel
511 OHM	1/2W	1%	±100 ppm	5053HD511R0F	Tape & Reel
523 OHM	1/2W	1%	±100 ppm	5053HD523R0F	Tape & Reel
536 OHM	1/2W	1%	±100 ppm	5053HD536R0F	Tape & Reel
549 OHM	1/2W	1%	±100 ppm	5053HD549R0F	Tape & Reel
560 OHM	1/2W	1%	±100 ppm	5053HD560R0F	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
562 OHM	1/2W	1%	±100 ppm	5053HD562R0F	Tape & Reel
576 OHM	1/2W	1%	±100 ppm	5053HD576R0F	Tape & Reel
590 OHM	1/2W	1%	±100 ppm	5053HD590R0F	Tape & Reel
604 OHM	1/2W	1%	±100 ppm	5053HD604R0F	Tape & Reel
619 OHM	1/2W	1%	±100 ppm	5053HD619R0F	Tape & Reel
620 OHM	1/2W	1%	±100 ppm	5053HD620R0F	Tape & Reel
634 OHM	1/2W	1%	±100 ppm	5053HD634R0F	Tape & Reel
649 OHM	1/2W	1%	±100 ppm	5053HD649R0F	Tape & Reel
665 OHM	1/2W	1%	±100 ppm	5053HD665R0F	Tape & Reel
680 OHM	1/2W	1%	±100 ppm	5053HD680R0F	Tape & Reel
681 OHM	1/2W	1%	±100 ppm	5053HD681R0F	Tape & Reel
698 OHM	1/2W	1%	±100 ppm	5053HD698R0F	Tape & Reel
715 OHM	1/2W	1%	±100 ppm	5053HD715R0F	Tape & Reel
732 OHM	1/2W	1%	±100 ppm	5053HD732R0F	Tape & Reel
750 OHM	1/2W	1%	±100 ppm	5053HD750R0F	Tape & Reel
768 OHM	1/2W	1%	±100 ppm	5053HD768R0F	Tape & Reel
787 OHM	1/2W	1%	±100 ppm	5053HD787R0F	Tape & Reel
806 OHM	1/2W	1%	±100 ppm	5053HD806R0F	Tape & Reel
820 OHM	1/2W	1%	±100 ppm	5053HD820R0F	Tape & Reel
825 OHM	1/2W	1%	±100 ppm	5053HD825R0F	Tape & Reel
845 OHM	1/2W	1%	±100 ppm	5053HD845R0F	Tape & Reel
866 OHM	1/2W	1%	±100 ppm	5053HD866R0F	Tape & Reel
887 OHM	1/2W	1%	±100 ppm	5053HD887R0F	Tape & Reel
909 OHM	1/2W	1%	±100 ppm	5053HD909R0F	Tape & Reel
910 OHM	1/2W	1%	±100 ppm	5053HD910R0F	Tape & Reel
931 OHM	1/2W	1%	±100 ppm	5053HD931R0F	Tape & Reel
953 OHM	1/2W	1%	±100 ppm	5053HD953R0F	Tape & Reel
976 OHM	1/2W	1%	±100 ppm	5053HD976R0F	Tape & Reel
1.00 K OHM	1/2W	1%	±100 ppm	5053HD1K000F	Tape & Reel
1.02 K OHM	1/2W	1%	±100 ppm	5053HD1K020F	Tape & Reel
1.05 K OHM	1/2W	1%	±100 ppm	5053HD1K050F	Tape & Reel
1.07 K OHM	1/2W	1%	±100 ppm	5053HD1K070F	Tape & Reel
1.10 K OHM	1/2W	1%	±100 ppm	5053HD1K100F	Tape & Reel
1.13 K OHM	1/2W	1%	±100 ppm	5053HD1K130F	Tape & Reel
1.15 K OHM	1/2W	1%	±100 ppm	5053HD1K150F	Tape & Reel
1.18 K OHM	1/2W	1%	±100 ppm	5053HD1K180F	Tape & Reel
1.20 K OHM	1/2W	1%	±100 ppm	5053HD1K200F	Tape & Reel
1.21 K OHM	1/2W	1%	±100 ppm	5053HD1K210F	Tape & Reel
1.24 K OHM	1/2W	1%	±100 ppm	5053HD1K240F	Tape & Reel
1.27 K OHM	1/2W	1%	±100 ppm	5053HD1K270F	Tape & Reel
1.30 K OHM	1/2W	1%	±100 ppm	5053HD1K300F	Tape & Reel
1.33 K OHM	1/2W	1%	±100 ppm	5053HD1K330F	Tape & Reel
1.37 K OHM	1/2W	1%	±100 ppm	5053HD1K370F	Tape & Reel
1.40 K OHM	1/2W	1%	±100 ppm	5053HD1K400F	Tape & Reel
1.43 K OHM	1/2W	1%	±100 ppm	5053HD1K430F	Tape & Reel
1.47 K OHM	1/2W	1%	±100 ppm	5053HD1K470F	Tape & Reel
1.50 K OHM	1/2W	1%	±100 ppm	5053HD1K500F	Tape & Reel
1.54 K OHM	1/2W	1%	±100 ppm	5053HD1K540F	Tape & Reel
1.58 K OHM	1/2W	1%	±100 ppm	5053HD1K580F	Tape & Reel
1.60 K OHM	1/2W	1%	±100 ppm	5053HD1K600F	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HD

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1.62 K OHM	1/2W	1%	±100 ppm	5053HD1K620F	Tape & Reel
1.65 K OHM	1/2W	1%	±100 ppm	5053HD1K650F	Tape & Reel
1.69 K OHM	1/2W	1%	±100 ppm	5053HD1K690F	Tape & Reel
1.74 K OHM	1/2W	1%	±100 ppm	5053HD1K740F	Tape & Reel
1.78 K OHM	1/2W	1%	±100 ppm	5053HD1K780F	Tape & Reel
1.80 K OHM	1/2W	1%	±100 ppm	5053HD1K800F	Tape & Reel
1.82 K OHM	1/2W	1%	±100 ppm	5053HD1K820F	Tape & Reel
1.87 K OHM	1/2W	1%	±100 ppm	5053HD1K870F	Tape & Reel
1.91 K OHM	1/2W	1%	±100 ppm	5053HD1K910F	Tape & Reel
1.96 K OHM	1/2W	1%	±100 ppm	5053HD1K960F	Tape & Reel
2.00 K OHM	1/2W	1%	±100 ppm	5053HD2K000F	Tape & Reel
2.05 K OHM	1/2W	1%	±100 ppm	5053HD2K050F	Tape & Reel
2.10 K OHM	1/2W	1%	±100 ppm	5053HD2K100F	Tape & Reel
2.15 K OHM	1/2W	1%	±100 ppm	5053HD2K150F	Tape & Reel
2.20 K OHM	1/2W	1%	±100 ppm	5053HD2K200F	Tape & Reel
2.21 K OHM	1/2W	1%	±100 ppm	5053HD2K210F	Tape & Reel
2.26 K OHM	1/2W	1%	±100 ppm	5053HD2K260F	Tape & Reel
2.32 K OHM	1/2W	1%	±100 ppm	5053HD2K320F	Tape & Reel
2.37 K OHM	1/2W	1%	±100 ppm	5053HD2K370F	Tape & Reel
2.40 K OHM	1/2W	1%	±100 ppm	5053HD2K400F	Tape & Reel
2.43 K OHM	1/2W	1%	±100 ppm	5053HD2K430F	Tape & Reel
2.49 K OHM	1/2W	1%	±100 ppm	5053HD2K490F	Tape & Reel
2.55 K OHM	1/2W	1%	±100 ppm	5053HD2K550F	Tape & Reel
2.61 K OHM	1/2W	1%	±100 ppm	5053HD2K610F	Tape & Reel
2.67 K OHM	1/2W	1%	±100 ppm	5053HD2K670F	Tape & Reel
2.70 K OHM	1/2W	1%	±100 ppm	5053HD2K700F	Tape & Reel
2.74 K OHM	1/2W	1%	±100 ppm	5053HD2K740F	Tape & Reel
2.80 K OHM	1/2W	1%	±100 ppm	5053HD2K800F	Tape & Reel
2.87 K OHM	1/2W	1%	±100 ppm	5053HD2K870F	Tape & Reel
2.94 K OHM	1/2W	1%	±100 ppm	5053HD2K940F	Tape & Reel
3.00 K OHM	1/2W	1%	±100 ppm	5053HD3K000F	Tape & Reel
3.01 K OHM	1/2W	1%	±100 ppm	5053HD3K010F	Tape & Reel
3.09 K OHM	1/2W	1%	±100 ppm	5053HD3K090F	Tape & Reel
3.16 K OHM	1/2W	1%	±100 ppm	5053HD3K160F	Tape & Reel
3.24 K OHM	1/2W	1%	±100 ppm	5053HD3K240F	Tape & Reel
3.30 K OHM	1/2W	1%	±100 ppm	5053HD3K300F	Tape & Reel
3.32 K OHM	1/2W	1%	±100 ppm	5053HD3K320F	Tape & Reel
3.40 K OHM	1/2W	1%	±100 ppm	5053HD3K400F	Tape & Reel
3.48 K OHM	1/2W	1%	±100 ppm	5053HD3K480F	Tape & Reel
3.57 K OHM	1/2W	1%	±100 ppm	5053HD3K570F	Tape & Reel
3.60 K OHM	1/2W	1%	±100 ppm	5053HD3K600F	Tape & Reel
3.65 K OHM	1/2W	1%	±100 ppm	5053HD3K650F	Tape & Reel
3.74 K OHM	1/2W	1%	±100 ppm	5053HD3K740F	Tape & Reel
3.83 K OHM	1/2W	1%	±100 ppm	5053HD3K830F	Tape & Reel
3.90 K OHM	1/2W	1%	±100 ppm	5053HD3K900F	Tape & Reel
3.92 K OHM	1/2W	1%	±100 ppm	5053HD3K920F	Tape & Reel
4.02 K OHM	1/2W	1%	±100 ppm	5053HD4K020F	Tape & Reel
4.12 K OHM	1/2W	1%	±100 ppm	5053HD4K120F	Tape & Reel
4.22 K OHM	1/2W	1%	±100 ppm	5053HD4K220F	Tape & Reel
4.30 K OHM	1/2W	1%	±100 ppm	5053HD4K300F	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
4.32 K OHM	1/2W	1%	±100 ppm	5053HD4K320F	Tape & Reel
4.42 K OHM	1/2W	1%	±100 ppm	5053HD4K420F	Tape & Reel
4.53 K OHM	1/2W	1%	±100 ppm	5053HD4K530F	Tape & Reel
4.64 K OHM	1/2W	1%	±100 ppm	5053HD4K640F	Tape & Reel
4.70 K OHM	1/2W	1%	±100 ppm	5053HD4K700F	Tape & Reel
4.75 K OHM	1/2W	1%	±100 ppm	5053HD4K750F	Tape & Reel
4.87 K OHM	1/2W	1%	±100 ppm	5053HD4K870F	Tape & Reel
4.99 K OHM	1/2W	1%	±100 ppm	5053HD4K990F	Tape & Reel
5.10 K OHM	1/2W	1%	±100 ppm	5053HD5K100F	Tape & Reel
5.11 K OHM	1/2W	1%	±100 ppm	5053HD5K110F	Tape & Reel
5.23 K OHM	1/2W	1%	±100 ppm	5053HD5K230F	Tape & Reel
5.36 K OHM	1/2W	1%	±100 ppm	5053HD5K360F	Tape & Reel
5.49 K OHM	1/2W	1%	±100 ppm	5053HD5K490F	Tape & Reel
5.60 K OHM	1/2W	1%	±100 ppm	5053HD5K600F	Tape & Reel
5.62 K OHM	1/2W	1%	±100 ppm	5053HD5K620F	Tape & Reel
5.76 K OHM	1/2W	1%	±100 ppm	5053HD5K760F	Tape & Reel
5.90 K OHM	1/2W	1%	±100 ppm	5053HD5K900F	Tape & Reel
6.04 K OHM	1/2W	1%	±100 ppm	5053HD6K040F	Tape & Reel
6.19 K OHM	1/2W	1%	±100 ppm	5053HD6K190F	Tape & Reel
6.20 K OHM	1/2W	1%	±100 ppm	5053HD6K200F	Tape & Reel
6.34 K OHM	1/2W	1%	±100 ppm	5053HD6K340F	Tape & Reel
6.49 K OHM	1/2W	1%	±100 ppm	5053HD6K490F	Tape & Reel
6.65 K OHM	1/2W	1%	±100 ppm	5053HD6K650F	Tape & Reel
6.80 K OHM	1/2W	1%	±100 ppm	5053HD6K800F	Tape & Reel
6.81 K OHM	1/2W	1%	±100 ppm	5053HD6K810F	Tape & Reel
6.98 K OHM	1/2W	1%	±100 ppm	5053HD6K980F	Tape & Reel
7.15 K OHM	1/2W	1%	±100 ppm	5053HD7K150F	Tape & Reel
7.32 K OHM	1/2W	1%	±100 ppm	5053HD7K320F	Tape & Reel
7.50 K OHM	1/2W	1%	±100 ppm	5053HD7K500F	Tape & Reel
7.68 K OHM	1/2W	1%	±100 ppm	5053HD7K680F	Tape & Reel
7.87 K OHM	1/2W	1%	±100 ppm	5053HD7K870F	Tape & Reel
8.06 K OHM	1/2W	1%	±100 ppm	5053HD8K060F	Tape & Reel
8.20 K OHM	1/2W	1%	±100 ppm	5053HD8K200F	Tape & Reel
8.25 K OHM	1/2W	1%	±100 ppm	5053HD8K250F	Tape & Reel
8.45 K OHM	1/2W	1%	±100 ppm	5053HD8K450F	Tape & Reel
8.66 K OHM	1/2W	1%	±100 ppm	5053HD8K660F	Tape & Reel
8.87 K OHM	1/2W	1%	±100 ppm	5053HD8K870F	Tape & Reel
9.09 K OHM	1/2W	1%	±100 ppm	5053HD9K090F	Tape & Reel
9.10 K OHM	1/2W	1%	±100 ppm	5053HD9K100F	Tape & Reel
9.31 K OHM	1/2W	1%	±100 ppm	5053HD9K310F	Tape & Reel
9.53 K OHM	1/2W	1%	±100 ppm	5053HD9K530F	Tape & Reel
9.76 K OHM	1/2W	1%	±100 ppm	5053HD9K760F	Tape & Reel
10.0 K OHM	1/2W	1%	±100 ppm	5053HD10K00F	Tape & Reel
10.2 K OHM	1/2W	1%	±100 ppm	5053HD10K20F	Tape & Reel
10.5 K OHM	1/2W	1%	±100 ppm	5053HD10K50F	Tape & Reel
10.7 K OHM	1/2W	1%	±100 ppm	5053HD10K70F	Tape & Reel
11.0 K OHM	1/2W	1%	±100 ppm	5053HD11K00F	Tape & Reel
11.3 K OHM	1/2W	1%	±100 ppm	5053HD11K30F	Tape & Reel
11.5 K OHM	1/2W	1%	±100 ppm	5053HD11K50F	Tape & Reel
11.8 K OHM	1/2W	1%	±100 ppm	5053HD11K80F	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HD

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
12.0 K OHM	1/2W	1%	±100 ppm	5053HD12K00F	Tape & Reel
12.1 K OHM	1/2W	1%	±100 ppm	5053HD12K10F	Tape & Reel
12.4 K OHM	1/2W	1%	±100 ppm	5053HD12K40F	Tape & Reel
12.7 K OHM	1/2W	1%	±100 ppm	5053HD12K70F	Tape & Reel
13.0 K OHM	1/2W	1%	±100 ppm	5053HD13K00F	Tape & Reel
13.3 K OHM	1/2W	1%	±100 ppm	5053HD13K30F	Tape & Reel
13.7 K OHM	1/2W	1%	±100 ppm	5053HD13K70F	Tape & Reel
14.0 K OHM	1/2W	1%	±100 ppm	5053HD14K00F	Tape & Reel
14.3 K OHM	1/2W	1%	±100 ppm	5053HD14K30F	Tape & Reel
14.7 K OHM	1/2W	1%	±100 ppm	5053HD14K70F	Tape & Reel
15.0 K OHM	1/2W	1%	±100 ppm	5053HD15K00F	Tape & Reel
15.4 K OHM	1/2W	1%	±100 ppm	5053HD15K40F	Tape & Reel
15.8 K OHM	1/2W	1%	±100 ppm	5053HD15K80F	Tape & Reel
16.0 K OHM	1/2W	1%	±100 ppm	5053HD16K00F	Tape & Reel
16.2 K OHM	1/2W	1%	±100 ppm	5053HD16K20F	Tape & Reel
16.5 K OHM	1/2W	1%	±100 ppm	5053HD16K50F	Tape & Reel
16.9 K OHM	1/2W	1%	±100 ppm	5053HD16K90F	Tape & Reel
17.4 K OHM	1/2W	1%	±100 ppm	5053HD17K40F	Tape & Reel
17.8 K OHM	1/2W	1%	±100 ppm	5053HD17K80F	Tape & Reel
18.0 K OHM	1/2W	1%	±100 ppm	5053HD18K00F	Tape & Reel
18.2 K OHM	1/2W	1%	±100 ppm	5053HD18K20F	Tape & Reel
18.7 K OHM	1/2W	1%	±100 ppm	5053HD18K70F	Tape & Reel
19.1 K OHM	1/2W	1%	±100 ppm	5053HD19K10F	Tape & Reel
19.6 K OHM	1/2W	1%	±100 ppm	5053HD19K60F	Tape & Reel
20.0 K OHM	1/2W	1%	±100 ppm	5053HD20K00F	Tape & Reel
20.5 K OHM	1/2W	1%	±100 ppm	5053HD20K50F	Tape & Reel
21.0 K OHM	1/2W	1%	±100 ppm	5053HD21K00F	Tape & Reel
21.5 K OHM	1/2W	1%	±100 ppm	5053HD21K50F	Tape & Reel
22.0 K OHM	1/2W	1%	±100 ppm	5053HD22K00F	Tape & Reel
22.1 K OHM	1/2W	1%	±100 ppm	5053HD22K10F	Tape & Reel
22.6 K OHM	1/2W	1%	±100 ppm	5053HD22K60F	Tape & Reel
23.2 K OHM	1/2W	1%	±100 ppm	5053HD23K20F	Tape & Reel
23.7 K OHM	1/2W	1%	±100 ppm	5053HD23K70F	Tape & Reel
24.0 K OHM	1/2W	1%	±100 ppm	5053HD24K00F	Tape & Reel
24.3 K OHM	1/2W	1%	±100 ppm	5053HD24K30F	Tape & Reel
24.9 K OHM	1/2W	1%	±100 ppm	5053HD24K90F	Tape & Reel
25.5 K OHM	1/2W	1%	±100 ppm	5053HD25K50F	Tape & Reel
26.1 K OHM	1/2W	1%	±100 ppm	5053HD26K10F	Tape & Reel
26.7 K OHM	1/2W	1%	±100 ppm	5053HD26K70F	Tape & Reel
27.0 K OHM	1/2W	1%	±100 ppm	5053HD27K00F	Tape & Reel
27.4 K OHM	1/2W	1%	±100 ppm	5053HD27K40F	Tape & Reel
28.0 K OHM	1/2W	1%	±100 ppm	5053HD28K00F	Tape & Reel
28.7 K OHM	1/2W	1%	±100 ppm	5053HD28K70F	Tape & Reel
29.4 K OHM	1/2W	1%	±100 ppm	5053HD29K40F	Tape & Reel
30.0 K OHM	1/2W	1%	±100 ppm	5053HD30K00F	Tape & Reel
30.1 K OHM	1/2W	1%	±100 ppm	5053HD30K10F	Tape & Reel
30.9 K OHM	1/2W	1%	±100 ppm	5053HD30K90F	Tape & Reel
31.6 K OHM	1/2W	1%	±100 ppm	5053HD31K60F	Tape & Reel
32.4 K OHM	1/2W	1%	±100 ppm	5053HD32K40F	Tape & Reel
33.0 K OHM	1/2W	1%	±100 ppm	5053HD33K00F	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
33.2 K OHM	1/2W	1%	±100 ppm	5053HD33K20F	Tape & Reel
34.0 K OHM	1/2W	1%	±100 ppm	5053HD34K00F	Tape & Reel
34.8 K OHM	1/2W	1%	±100 ppm	5053HD34K80F	Tape & Reel
35.7 K OHM	1/2W	1%	±100 ppm	5053HD35K70F	Tape & Reel
36.0 K OHM	1/2W	1%	±100 ppm	5053HD36K00F	Tape & Reel
36.5 K OHM	1/2W	1%	±100 ppm	5053HD36K50F	Tape & Reel
37.4 K OHM	1/2W	1%	±100 ppm	5053HD37K40F	Tape & Reel
38.3 K OHM	1/2W	1%	±100 ppm	5053HD38K30F	Tape & Reel
39.0 K OHM	1/2W	1%	±100 ppm	5053HD39K00F	Tape & Reel
39.2 K OHM	1/2W	1%	±100 ppm	5053HD39K20F	Tape & Reel
40.2 K OHM	1/2W	1%	±100 ppm	5053HD40K20F	Tape & Reel
41.2 K OHM	1/2W	1%	±100 ppm	5053HD41K20F	Tape & Reel
42.2 K OHM	1/2W	1%	±100 ppm	5053HD42K20F	Tape & Reel
43.0 K OHM	1/2W	1%	±100 ppm	5053HD43K00F	Tape & Reel
43.2 K OHM	1/2W	1%	±100 ppm	5053HD43K20F	Tape & Reel
44.2 K OHM	1/2W	1%	±100 ppm	5053HD44K20F	Tape & Reel
45.3 K OHM	1/2W	1%	±100 ppm	5053HD45K30F	Tape & Reel
46.4 K OHM	1/2W	1%	±100 ppm	5053HD46K40F	Tape & Reel
47.0 K OHM	1/2W	1%	±100 ppm	5053HD47K00F	Tape & Reel
47.5 K OHM	1/2W	1%	±100 ppm	5053HD47K50F	Tape & Reel
48.7 K OHM	1/2W	1%	±100 ppm	5053HD48K70F	Tape & Reel
49.9 K OHM	1/2W	1%	±100 ppm	5053HD49K90F	Tape & Reel
51.0 K OHM	1/2W	1%	±100 ppm	5053HD51K00F	Tape & Reel
51.1 K OHM	1/2W	1%	±100 ppm	5053HD51K10F	Tape & Reel
52.3 K OHM	1/2W	1%	±100 ppm	5053HD52K30F	Tape & Reel
53.6 K OHM	1/2W	1%	±100 ppm	5053HD53K60F	Tape & Reel
54.9 K OHM	1/2W	1%	±100 ppm	5053HD54K90F	Tape & Reel
56.0 K OHM	1/2W	1%	±100 ppm	5053HD56K00F	Tape & Reel
56.2 K OHM	1/2W	1%	±100 ppm	5053HD56K20F	Tape & Reel
57.6 K OHM	1/2W	1%	±100 ppm	5053HD57K60F	Tape & Reel
59.0 K OHM	1/2W	1%	±100 ppm	5053HD59K00F	Tape & Reel
60.4 K OHM	1/2W	1%	±100 ppm	5053HD60K40F	Tape & Reel
61.9 K OHM	1/2W	1%	±100 ppm	5053HD61K90F	Tape & Reel
62.0 K OHM	1/2W	1%	±100 ppm	5053HD62K00F	Tape & Reel
63.4 K OHM	1/2W	1%	±100 ppm	5053HD63K40F	Tape & Reel
64.9 K OHM	1/2W	1%	±100 ppm	5053HD64K90F	Tape & Reel
66.5 K OHM	1/2W	1%	±100 ppm	5053HD66K50F	Tape & Reel
68.0 K OHM	1/2W	1%	±100 ppm	5053HD68K00F	Tape & Reel
68.1 K OHM	1/2W	1%	±100 ppm	5053HD68K10F	Tape & Reel
69.8 K OHM	1/2W	1%	±100 ppm	5053HD69K80F	Tape & Reel
71.5 K OHM	1/2W	1%	±100 ppm	5053HD71K50F	Tape & Reel
73.2 K OHM	1/2W	1%	±100 ppm	5053HD73K20F	Tape & Reel
75.0 K OHM	1/2W	1%	±100 ppm	5053HD75K00F	Tape & Reel
76.8 K OHM	1/2W	1%	±100 ppm	5053HD76K80F	Tape & Reel
78.7 K OHM	1/2W	1%	±100 ppm	5053HD78K70F	Tape & Reel
80.6 K OHM	1/2W	1%	±100 ppm	5053HD80K60F	Tape & Reel
82.0 K OHM	1/2W	1%	±100 ppm	5053HD82K00F	Tape & Reel
82.5 K OHM	1/2W	1%	±100 ppm	5053HD82K50F	Tape & Reel
84.5 K OHM	1/2W	1%	±100 ppm	5053HD84K50F	Tape & Reel
86.6 K OHM	1/2W	1%	±100 ppm	5053HD86K60F	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HD

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
88.7 K OHM	1/2W	1%	±100 ppm	5053HD88K70F	Tape & Reel
90.9 K OHM	1/2W	1%	±100 ppm	5053HD90K90F	Tape & Reel
91.0 K OHM	1/2W	1%	±100 ppm	5053HD91K00F	Tape & Reel
93.1 K OHM	1/2W	1%	±100 ppm	5053HD93K10F	Tape & Reel
95.3 K OHM	1/2W	1%	±100 ppm	5053HD95K30F	Tape & Reel
97.6 K OHM	1/2W	1%	±100 ppm	5053HD97K60F	Tape & Reel
100 K OHM	1/2W	1%	±100 ppm	5053HD100K0F	Tape & Reel
102 K OHM	1/2W	1%	±100 ppm	5053HD102K0F	Tape & Reel
105 K OHM	1/2W	1%	±100 ppm	5053HD105K0F	Tape & Reel
107 K OHM	1/2W	1%	±100 ppm	5053HD107K0F	Tape & Reel
110 K OHM	1/2W	1%	±100 ppm	5053HD110K0F	Tape & Reel
113 K OHM	1/2W	1%	±100 ppm	5053HD113K0F	Tape & Reel
115 K OHM	1/2W	1%	±100 ppm	5053HD115K0F	Tape & Reel
118 K OHM	1/2W	1%	±100 ppm	5053HD118K0F	Tape & Reel
120 K OHM	1/2W	1%	±100 ppm	5053HD120K0F	Tape & Reel
121 K OHM	1/2W	1%	±100 ppm	5053HD121K0F	Tape & Reel
124 K OHM	1/2W	1%	±100 ppm	5053HD124K0F	Tape & Reel
127 K OHM	1/2W	1%	±100 ppm	5053HD127K0F	Tape & Reel
130 K OHM	1/2W	1%	±100 ppm	5053HD130K0F	Tape & Reel
133 K OHM	1/2W	1%	±100 ppm	5053HD133K0F	Tape & Reel
137 K OHM	1/2W	1%	±100 ppm	5053HD137K0F	Tape & Reel
140 K OHM	1/2W	1%	±100 ppm	5053HD140K0F	Tape & Reel
143 K OHM	1/2W	1%	±100 ppm	5053HD143K0F	Tape & Reel
147 K OHM	1/2W	1%	±100 ppm	5053HD147K0F	Tape & Reel
150 K OHM	1/2W	1%	±100 ppm	5053HD150K0F	Tape & Reel
154 K OHM	1/2W	1%	±100 ppm	5053HD154K0F	Tape & Reel
158 K OHM	1/2W	1%	±100 ppm	5053HD158K0F	Tape & Reel
160 K OHM	1/2W	1%	±100 ppm	5053HD160K0F	Tape & Reel
162 K OHM	1/2W	1%	±100 ppm	5053HD162K0F	Tape & Reel
165 K OHM	1/2W	1%	±100 ppm	5053HD165K0F	Tape & Reel
169 K OHM	1/2W	1%	±100 ppm	5053HD169K0F	Tape & Reel
174 K OHM	1/2W	1%	±100 ppm	5053HD174K0F	Tape & Reel
178 K OHM	1/2W	1%	±100 ppm	5053HD178K0F	Tape & Reel
180 K OHM	1/2W	1%	±100 ppm	5053HD180K0F	Tape & Reel
182 K OHM	1/2W	1%	±100 ppm	5053HD182K0F	Tape & Reel
187 K OHM	1/2W	1%	±100 ppm	5053HD187K0F	Tape & Reel
191 K OHM	1/2W	1%	±100 ppm	5053HD191K0F	Tape & Reel
196 K OHM	1/2W	1%	±100 ppm	5053HD196K0F	Tape & Reel
200 K OHM	1/2W	1%	±100 ppm	5053HD200K0F	Tape & Reel
205 K OHM	1/2W	1%	±100 ppm	5053HD205K0F	Tape & Reel
210 K OHM	1/2W	1%	±100 ppm	5053HD210K0F	Tape & Reel
215 K OHM	1/2W	1%	±100 ppm	5053HD215K0F	Tape & Reel
220 K OHM	1/2W	1%	±100 ppm	5053HD220K0F	Tape & Reel
221 K OHM	1/2W	1%	±100 ppm	5053HD221K0F	Tape & Reel
226 K OHM	1/2W	1%	±100 ppm	5053HD226K0F	Tape & Reel
232 K OHM	1/2W	1%	±100 ppm	5053HD232K0F	Tape & Reel
237 K OHM	1/2W	1%	±100 ppm	5053HD237K0F	Tape & Reel
240 K OHM	1/2W	1%	±100 ppm	5053HD240K0F	Tape & Reel
243 K OHM	1/2W	1%	±100 ppm	5053HD243K0F	Tape & Reel
249 K OHM	1/2W	1%	±100 ppm	5053HD249K0F	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
255 K OHM	1/2W	1%	±100 ppm	5053HD255K0F	Tape & Reel
261 K OHM	1/2W	1%	±100 ppm	5053HD261K0F	Tape & Reel
267 K OHM	1/2W	1%	±100 ppm	5053HD267K0F	Tape & Reel
270 K OHM	1/2W	1%	±100 ppm	5053HD270K0F	Tape & Reel
274 K OHM	1/2W	1%	±100 ppm	5053HD274K0F	Tape & Reel
280 K OHM	1/2W	1%	±100 ppm	5053HD280K0F	Tape & Reel
287 K OHM	1/2W	1%	±100 ppm	5053HD287K0F	Tape & Reel
294 K OHM	1/2W	1%	±100 ppm	5053HD294K0F	Tape & Reel
300 K OHM	1/2W	1%	±100 ppm	5053HD300K0F	Tape & Reel
301 K OHM	1/2W	1%	±100 ppm	5053HD301K0F	Tape & Reel
309 K OHM	1/2W	1%	±100 ppm	5053HD309K0F	Tape & Reel
316 K OHM	1/2W	1%	±100 ppm	5053HD316K0F	Tape & Reel
324 K OHM	1/2W	1%	±100 ppm	5053HD324K0F	Tape & Reel
330 K OHM	1/2W	1%	±100 ppm	5053HD330K0F	Tape & Reel
332 K OHM	1/2W	1%	±100 ppm	5053HD332K0F	Tape & Reel
340 K OHM	1/2W	1%	±100 ppm	5053HD340K0F	Tape & Reel
348 K OHM	1/2W	1%	±100 ppm	5053HD348K0F	Tape & Reel
357 K OHM	1/2W	1%	±100 ppm	5053HD357K0F	Tape & Reel
360 K OHM	1/2W	1%	±100 ppm	5053HD360K0F	Tape & Reel
365 K OHM	1/2W	1%	±100 ppm	5053HD365K0F	Tape & Reel
374 K OHM	1/2W	1%	±100 ppm	5053HD374K0F	Tape & Reel
383 K OHM	1/2W	1%	±100 ppm	5053HD383K0F	Tape & Reel
390 K OHM	1/2W	1%	±100 ppm	5053HD390K0F	Tape & Reel
392 K OHM	1/2W	1%	±100 ppm	5053HD392K0F	Tape & Reel
402 K OHM	1/2W	1%	±100 ppm	5053HD402K0F	Tape & Reel
412 K OHM	1/2W	1%	±100 ppm	5053HD412K0F	Tape & Reel
422 K OHM	1/2W	1%	±100 ppm	5053HD422K0F	Tape & Reel
430 K OHM	1/2W	1%	±100 ppm	5053HD430K0F	Tape & Reel
432 K OHM	1/2W	1%	±100 ppm	5053HD432K0F	Tape & Reel
442 K OHM	1/2W	1%	±100 ppm	5053HD442K0F	Tape & Reel
453 K OHM	1/2W	1%	±100 ppm	5053HD453K0F	Tape & Reel
464 K OHM	1/2W	1%	±100 ppm	5053HD464K0F	Tape & Reel
470 K OHM	1/2W	1%	±100 ppm	5053HD470K0F	Tape & Reel
475 K OHM	1/2W	1%	±100 ppm	5053HD475K0F	Tape & Reel
487 K OHM	1/2W	1%	±100 ppm	5053HD487K0F	Tape & Reel
499 K OHM	1/2W	1%	±100 ppm	5053HD499K0F	Tape & Reel
510 K OHM	1/2W	1%	±100 ppm	5053HD510K0F	Tape & Reel
511 K OHM	1/2W	1%	±100 ppm	5053HD511K0F	Tape & Reel
523 K OHM	1/2W	1%	±100 ppm	5053HD523K0F	Tape & Reel
536 K OHM	1/2W	1%	±100 ppm	5053HD536K0F	Tape & Reel
549 K OHM	1/2W	1%	±100 ppm	5053HD549K0F	Tape & Reel
560 K OHM	1/2W	1%	±100 ppm	5053HD560K0F	Tape & Reel
562 K OHM	1/2W	1%	±100 ppm	5053HD562K0F	Tape & Reel
576 K OHM	1/2W	1%	±100 ppm	5053HD576K0F	Tape & Reel
590 K OHM	1/2W	1%	±100 ppm	5053HD590K0F	Tape & Reel
604 K OHM	1/2W	1%	±100 ppm	5053HD604K0F	Tape & Reel
619 K OHM	1/2W	1%	±100 ppm	5053HD619K0F	Tape & Reel
620 K OHM	1/2W	1%	±100 ppm	5053HD620K0F	Tape & Reel
634 K OHM	1/2W	1%	±100 ppm	5053HD634K0F	Tape & Reel
649 K OHM	1/2W	1%	±100 ppm	5053HD649K0F	Tape & Reel

Metal Film Axial Lead Resistor

Series 5053HD

PHILIPS

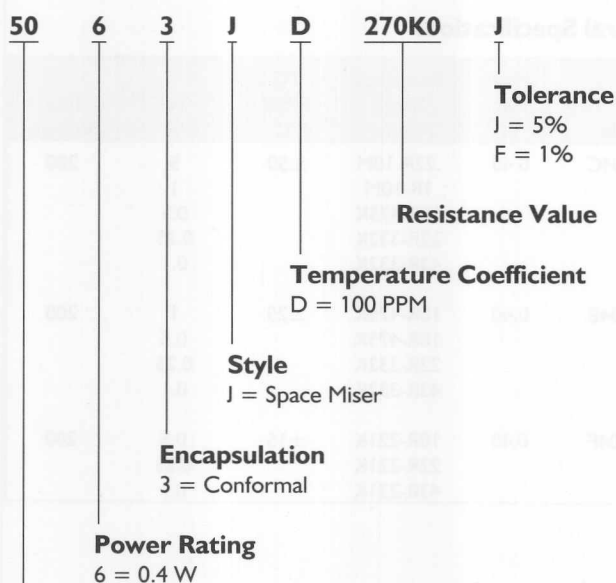
Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
665 K OHM	1/2W	1%	±100 ppm	5053HD665K0F	Tape & Reel
680 K OHM	1/2W	1%	±100 ppm	5053HD680K0F	Tape & Reel
681 K OHM	1/2W	1%	±100 ppm	5053HD681K0F	Tape & Reel
698 K OHM	1/2W	1%	±100 ppm	5053HD698K0F	Tape & Reel
715 K OHM	1/2W	1%	±100 ppm	5053HD715K0F	Tape & Reel
732 K OHM	1/2W	1%	±100 ppm	5053HD732K0F	Tape & Reel
750 K OHM	1/2W	1%	±100 ppm	5053HD750K0F	Tape & Reel
768 K OHM	1/2W	1%	±100 ppm	5053HD768K0F	Tape & Reel
787 K OHM	1/2W	1%	±100 ppm	5053HD787K0F	Tape & Reel
806 K OHM	1/2W	1%	±100 ppm	5053HD806K0F	Tape & Reel
820 K OHM	1/2W	1%	±100 ppm	5053HD820K0F	Tape & Reel
825 K OHM	1/2W	1%	±100 ppm	5053HD825K0F	Tape & Reel
845 K OHM	1/2W	1%	±100 ppm	5053HD845K0F	Tape & Reel
866 K OHM	1/2W	1%	±100 ppm	5053HD866K0F	Tape & Reel
887 K OHM	1/2W	1%	±100 ppm	5053HD887K0F	Tape & Reel
909 K OHM	1/2W	1%	±100 ppm	5053HD909K0F	Tape & Reel
910 K OHM	1/2W	1%	±100 ppm	5053HD910K0F	Tape & Reel
931 K OHM	1/2W	1%	±100 ppm	5053HD931K0F	Tape & Reel
953 K OHM	1/2W	1%	±100 ppm	5053HD953K0F	Tape & Reel
976 K OHM	1/2W	1%	±100 ppm	5053HD976K0F	Tape & Reel
1.00 M OHM	1/2W	1%	±100 ppm	5053HD1M000F	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.



Space Miser Metal Film Resistor Series 5063J

0.4 Watt
1% & 5% Tolerance
Miniature Size



Fixed Axial Resistor

Marking

Color Band Marking

Packaging

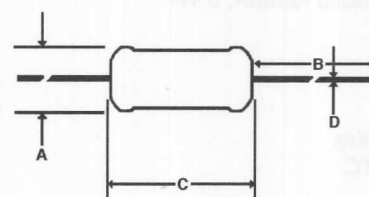
Tape & Reel - 5,000 piece reels
Ammo Pack - 1,000 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %	Max Voltage
5063J	0.4 0.4	.22-10M 1R-10M	±100 ±100	5% 1%	200 200

Dimensions

A max Inches (mm)	B min Inches (mm)	C max Inches (mm)	D nom Inches (mm)
0.063 (1.6)	1.14 (29)	0.142 (3.6)	0.020 (0.5)



Metal Film Axial Lead Resistor

Series A0204

PHILIPS



Metal Film Resistor

Series A0204

0.4 Watt
1% & 5% Tolerance
Special low inductance version available

A0204

C

270K0

D

Tolerance

J = 5%

F = 1%

D = 0.5%

C = 0.25%

B = 0.1%

Resistance Value

Temperature Coefficient

C = 50 PPM

E = 25 PPM

F = 15 PPM

Style

Fixed Axial Leaded Resistor, 0.4W

Marking

Color Band Marking
Dot to indicate TC

Packaging

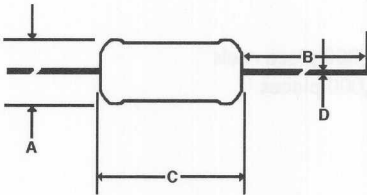
Tape & Reel - 5,000 piece reels
Ammo Pack - 1,000 or 5,000 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/ °C	Tol %	Max Voltage
A0204C	0.40	.22R-10M	±50	5	200
		1R-10M		1	
		10R-475K		0.5	
		22R-332K		0.25	
		43R-332K		0.1	
A0204E	0.40	10R-475K	±25	1	200
		10R-475K		0.5	
		22R-332K		0.25	
		43R-332K		0.1	
A0204F	0.40	10R-221K	±15	0.5	200
		22R-221K		0.25	
		43R-221K		0.1	

Dimensions

A max Inches (mm)	B min Inches (mm)	C max Inches (mm)	D nom Inches (mm)
0.063 (1.6)	1.14 (29)	0.142 (3.6)	0.020 (0.5)





Metal Film Resistor
Series B0207

0.6 Watt
.1% to 5% Tolerance
Zero ohm jumper available

B0207

C

1K000

D

Tolerance
J = 5%
F = 1%
D = 0.5%
C = 0.25%
B = 0.1%

Resistance Value

Temperature Coefficient
C = 50 PPM
E = 25 PPM
F = 15 PPM

Style
Fixed Axial Leaded Resistor, 0.6 W

Marking

Color Band Marking
Dot to indicate TC

Packaging

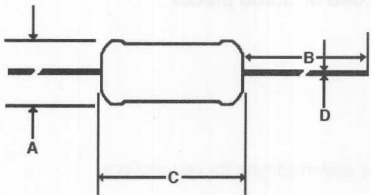
Tape & Reel - 5,000 piece reels
Ammo Pack - 1,000 or 5,000 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/ °C	Tol %	Max Voltage
B0204C	0.60	.22R-22M	±50	5	350V
		1R-10M		1	
		10R-1M		0.5	
		10R-1M		0.25	
		40.2-1M		0.1	
B0207E	0.60	10R-1M	±25	1	350V
		10R-1M		0.5	
		10R-1M		0.25	
		40.2R-1M		0.1	
B0207F	0.60	10R-560K	±15	0.5	350V
		10R-560K		0.25	
		40.2R-560K		0.1	
		560K			

Dimensions

A max Inches (mm)	B min Inches (mm)	C max Inches (mm)	D nom Inches (mm)
0.098 (2.5)	1.10 (28)	0.248 (6.3)	0.024 (0.6)



Metal Film Axial Lead Resistor Series C0309

PHILIPS



Metal Film Resistor Series C0309

0.66 Watt
.1% to 1% Tolerance

C0309	C	270K0	D
Style Fixed Axial Leaded Resistor, 0.66W			
Temperature Coefficient C = 50 PPM E = 25 PPM F = 15 PPM			
Resistance Value			
Tolerance J = 5% F = 1% D = 0.5% C = 0.25% B = 0.1%			

Marking

Color Band Marking
Dot to indicate TC

Packaging

Tape & Reel - 5,000 piece reels
Ammo Pack - 1,000 or 5,000 pieces

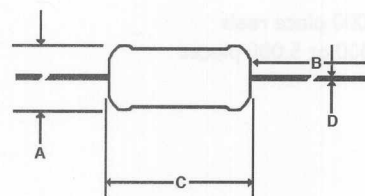
Note: B0207 is the preferred type for new designs.

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/ °C	Tol %	Max Voltage
C0309C	0.66	1R-1.5M 10R-1.5M 22R-1M 100R-680K	±50	1 0.5 0.25 0.1	350
C0309E	0.66	10R-1.5M 10R-1.5M 22R-1M 100R-680K	±25	1 0.5 0.25 0.1	350
C0309F	0.66	10R-360K 22R-360K 100R-360K	±15	0.5 0.25 0.1	350

Dimensions

A max Inches (mm)	B min Inches (mm)	C max Inches (mm)	D nom Inches (mm)
0.114 (2.9)	1.06 (27)	0.327 (8.3)	0.028 (0.7)





Metal Film Resistor Series E0414

1 Watt
.1% to 5% Tolerance

E0414	C	270K0	D
Style Fixed Axial Leaded Resistor, 1.0W			
Resistance Value			
Temperature Coefficient			
Tolerance			
J = 5%			
F = 1%			
D = 0.5%			
C = 0.25%			
B = 0.1%			

Marking

Color Band Marking
Dot to indicate TC

Packaging

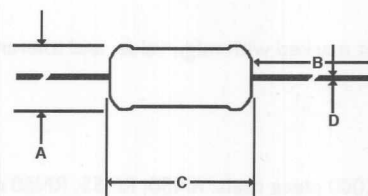
Tape & Reel - 5,000 piece reels
Ammo Pack - 1,000 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %	Max Voltage
E0414C	1.0	.22R-22M 1R-22M 10R-2.4M 22R-1.5M 100R-1M	±50	5 1 0.5 0.25 0.1	500
E0414E	1.0	10R-2.4M 10R-2.4M 22R-1.5M 100R-1M	±25	1 0.5 0.25 0.1	500
E0414F	1.0	10R-470K 22R-470K 100R-470K	±15	0.5 0.25 0.1	500

Dimensions

A max Inches (mm)	B min Inches (mm)	C max Inches (mm)	D nom Inches (mm)
0.157 (4.0)	1.22 (31)	0.469 (11.9)	0.031 (0.8)



Metal Film Precision Resistor RN Series



Metal Film Precision Resistor RN Series

RN	50	D	49R9	F
				Tolerance
				F = 1%
				D = 0.5%
				C = 0.25%
				B = 0.1%
				Resistance Value
				Temperature Coefficient
				D = 100 PPM/°C
				C = 50 PPM/°C
				E = 25 PPM/°C
				Power Rating
				50 = .40W
				55 = .60W
				60 = .66W
				65 = 1.0W
				ratings exceed requirements of Mil-R-10509

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TCR PPM/°C	Tol %
RN50	0.40	1R-750K	D/E/C	F/D/C/B
RN55	0.60	1R-2M	D/E/C	F/D/C/B
RN60	0.66	10R-2M	D/E/C	F/D/C/B
RN65	1.0	10R-4M	D/E/C	F/D/C/B

Dimensions

Style	A max Inches (mm)	B min Inches (mm)	D max Inches (mm)
RN50	0.063 (1.6)	0.142 (3.6)	0.020 (0.5)
RN55	0.098 (2.5)	0.248 (6.3)	0.024 (0.6)
RN60	0.114 (2.9)	0.327 (8.3)	0.028 (0.7)
RN65	0.157 (4.0)	0.469 (11.9)	0.031 (0.8)

Precision Metal Film Resistor

Marking

Parts to be script marked with mfg., value, and tolerance

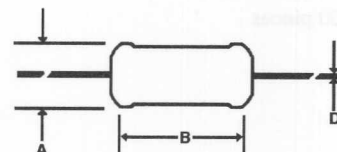
Packaging

Tape & Reel - 5,000 piece reels: RN50, RN55, RN60 only

Tape & Reel - 1,000 piece reels

Ammo Pack - 1,000 pieces

Ammo Pack - 5,000 pieces; RN50, RN55, RN60 only





Fusible Metal Film Resistor Series 5063F, 5053F

Fusing Characteristic
Flame Retardant Coating
1/3 and 1/2 Watt
5% Tolerance

50	6	3	F	M	47K00	J
						Tolerance J = 5%
						Resistance Value
						Temperature Coefficient M = 200 PPM D = 100 PPM
						Style F = Fusible
						Encapsulation 3 = Conformal
						Power Rating 5 = 1/2 W 6 = 1/3 W

Fixed Axial Resistor

Marking

Color Band Marking

Packaging

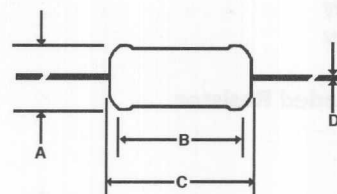
Tape & Reel - 5,000 piece reels
Ammo Pack - 5,000 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/C	Tol %	Max Voltage
5063F	1/3	1R-13R	±200	5%	250
		15R-15K	±100	5%	250
5053F	1/2	1R-4.7R	±200	5%	350
		5.1R-15K	±100	5%	350

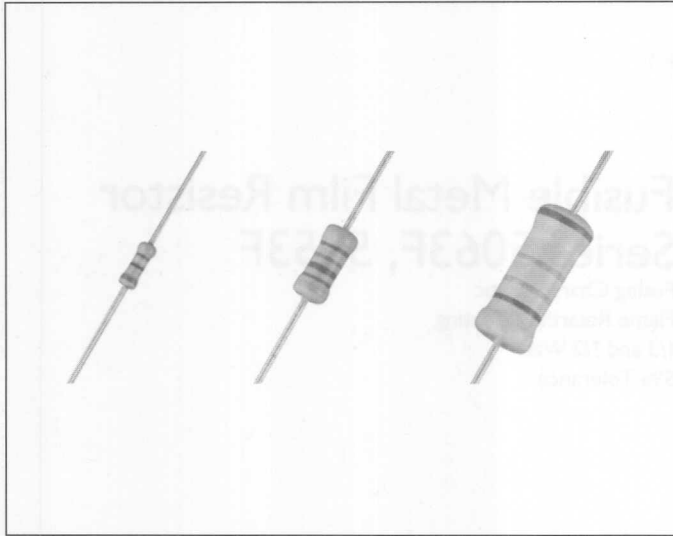
Dimensions

A max Inches (mm)	B max Inches (mm)	C Inches (mm)	D Inches (mm)
0.098 (2.5)	0.256 (6.5)	0.295 (7.5)	0.024 (0.6)



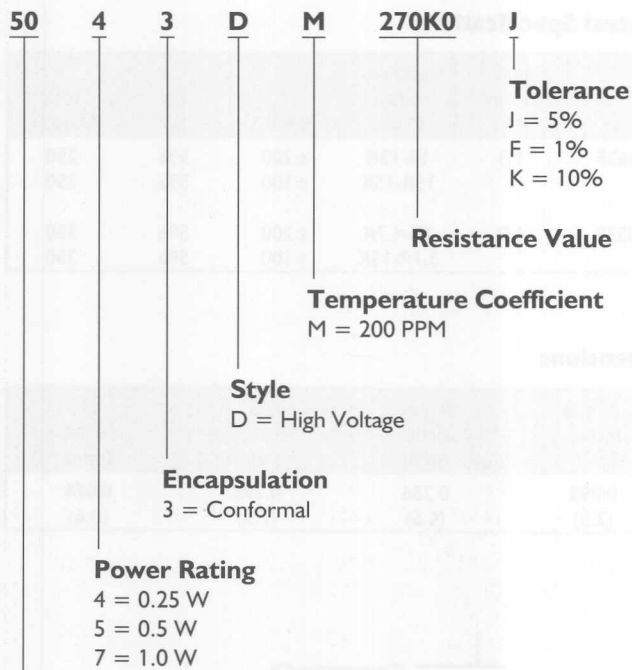
High Ohmic/High Voltage Axial Film Resistor Series 5043D

PHILIPS



High Ohmic Value/High Voltage Resistor Series 5043D, 5053D, 5073D

0.25, 0.5, & 1 Watt
1%, 5% and 10% Tolerance



Fixed Axial Leaded Resistor

Marking

Color Band Marking

Packaging

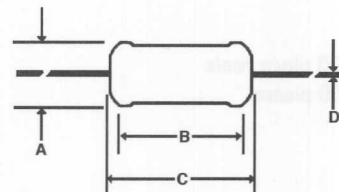
Tape & Reel - 5,000 piece reels
Ammo Pack - 1,000 pieces (0.25 & 0.5 W)
500 pieces (1 W)

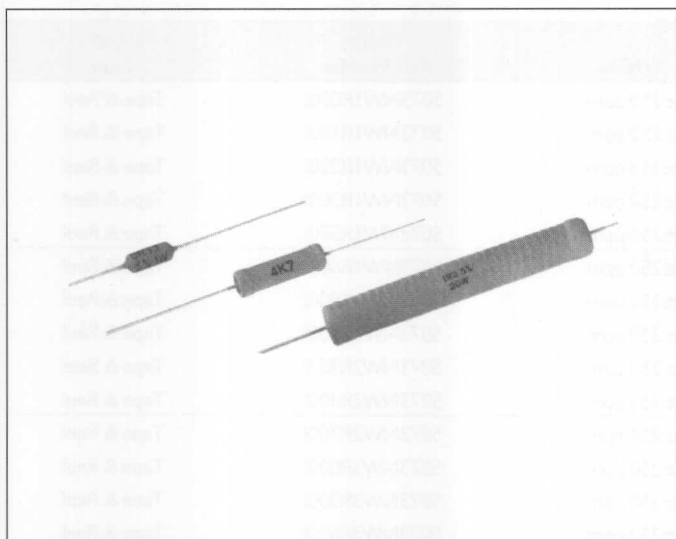
General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %	Max Voltage VDC
5043D	0.25	220K-15M 100K-10M 12M-22M	±200	1% 5% 10%	1600
5053D	0.5	100K-33M 100K-33M	±200	1% 5%	3500
5073D	1.0	100K-68M 100K-68M	±200	1% 5%	10000

Dimensions

A max Inches (mm)	B max Inches (mm)	C max Inches (mm)	D nom Inches (mm)
0.098 (2.5)	0.256 (6.5)	0.295 (7.5)	0.024 (0.6)
0.157 (4.0)	0.354 (9.0)	0.394 (10)	0.028 (0.7)
0.268 (6.8)	0.709 (18)	0.748 (19)	0.031 (0.8)





Power Metal Film Resistor Series 5073N, 5083N, 5093N

1, 2, & 3 Watt
5% Tolerance (1% available on special order)
Miniature Size

50	7	3	N	W	270K0	J
						Tolerance J = 5% F = 1% (special)
						Resistance Value
						Temperature Coefficient W = 250 PPM
						Style N = Power Film
						Encapsulation 3 = Conformal
						Power Rating 7 = 1 W 8 = 2 W 9 = 3 W

Fixed Axial Resistor

Marking

Color Band Marking

Packaging

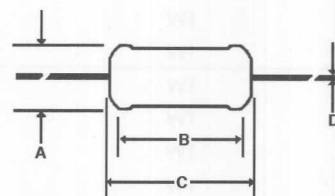
1 & 2 W
Tape & Reel - 5,000 piece reels
3 W
Ammo Pack - 1,000 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/C	Tol %	Max Voltage
5073NW	1	1R-1M	±250	5%	350
5083NW	2	1R-1M	±250	5%	500
5093NW	3	1R-1M	±250	5%	750

Dimensions

Style	A max Inches (mm)	B max Inches (mm)	C max Inches (mm)	D max Inches (mm)
5073N	0.098 (2.5)	0.256 (6.5)	0.335 (8.5)	0.024 (0.6)
5083N	0.154 (3.9)	0.394 (10)	0.472 (12)	0.031 (0.8)
5093N	0.205 (5.2)	0.657 (16.7)	0.768 (19.5)	0.031 (0.8)



Power Metal Film Axial Lead Resistor

Series 5073NW

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1 OHM	1W	5%	±250 ppm	5073NW1R000J	Tape & Reel
1.1 OHM	1W	5%	±250 ppm	5073NW1R100J	Tape & Reel
1.2 OHM	1W	5%	±250 ppm	5073NW1R200J	Tape & Reel
1.3 OHM	1W	5%	±250 ppm	5073NW1R300J	Tape & Reel
1.5 OHM	1W	5%	±250 ppm	5073NW1R500J	Tape & Reel
1.6 OHM	1W	5%	±250 ppm	5073NW1R600J	Tape & Reel
1.8 OHM	1W	5%	±250 ppm	5073NW1R800J	Tape & Reel
2 OHM	1W	5%	±250 ppm	5073NW2R000J	Tape & Reel
2.2 OHM	1W	5%	±250 ppm	5073NW2R200J	Tape & Reel
2.4 OHM	1W	5%	±250 ppm	5073NW2R400J	Tape & Reel
2.7 OHM	1W	5%	±250 ppm	5073NW2R700J	Tape & Reel
3 OHM	1W	5%	±250 ppm	5073NW3R000J	Tape & Reel
3.3 OHM	1W	5%	±250 ppm	5073NW3R300J	Tape & Reel
3.6 OHM	1W	5%	±250 ppm	5073NW3R600J	Tape & Reel
3.9 OHM	1W	5%	±250 ppm	5073NW3R900J	Tape & Reel
4.3 OHM	1W	5%	±250 ppm	5073NW4R300J	Tape & Reel
4.7 OHM	1W	5%	±250 ppm	5073NW4R700J	Tape & Reel
5.1 OHM	1W	5%	±250 ppm	5073NW5R100J	Tape & Reel
5.6 OHM	1W	5%	±250 ppm	5073NW5R600J	Tape & Reel
6.2 OHM	1W	5%	±250 ppm	5073NW6R200J	Tape & Reel
6.8 OHM	1W	5%	±250 ppm	5073NW6R800J	Tape & Reel
7.5 OHM	1W	5%	±250 ppm	5073NW7R500J	Tape & Reel
8.2 OHM	1W	5%	±250 ppm	5073NW8R200J	Tape & Reel
9.1 OHM	1W	5%	±250 ppm	5073NW9R100J	Tape & Reel
10 OHM	1W	5%	±250 ppm	5073NW10R00J	Tape & Reel
11 OHM	1W	5%	±250 ppm	5073NW11R00J	Tape & Reel
12 OHM	1W	5%	±250 ppm	5073NW12R00J	Tape & Reel
13 OHM	1W	5%	±250 ppm	5073NW13R00J	Tape & Reel
15 OHM	1W	5%	±250 ppm	5073NW15R00J	Tape & Reel
16 OHM	1W	5%	±250 ppm	5073NW16R00J	Tape & Reel
18 OHM	1W	5%	±250 ppm	5073NW18R00J	Tape & Reel
20 OHM	1W	5%	±250 ppm	5073NW20R00J	Tape & Reel
22 OHM	1W	5%	±250 ppm	5073NW22R00J	Tape & Reel
24 OHM	1W	5%	±250 ppm	5073NW24R00J	Tape & Reel
27 OHM	1W	5%	±250 ppm	5073NW27R00J	Tape & Reel
30 OHM	1W	5%	±250 ppm	5073NW30R00J	Tape & Reel
33 OHM	1W	5%	±250 ppm	5073NW33R00J	Tape & Reel
36 OHM	1W	5%	±250 ppm	5073NW36R00J	Tape & Reel
39 OHM	1W	5%	±250 ppm	5073NW39R00J	Tape & Reel
43 OHM	1W	5%	±250 ppm	5073NW43R00J	Tape & Reel
47 OHM	1W	5%	±250 ppm	5073NW47R00J	Tape & Reel
51 OHM	1W	5%	±250 ppm	5073NW51R00J	Tape & Reel
56 OHM	1W	5%	±250 ppm	5073NW56R00J	Tape & Reel
62 OHM	1W	5%	±250 ppm	5073NW62R00J	Tape & Reel
68 OHM	1W	5%	±250 ppm	5073NW68R00J	Tape & Reel
75 OHM	1W	5%	±250 ppm	5073NW75R00J	Tape & Reel
82 OHM	1W	5%	±250 ppm	5073NW82R00J	Tape & Reel
91 OHM	1W	5%	±250 ppm	5073NW91R00J	Tape & Reel
100 OHM	1W	5%	±250 ppm	5073NW100R0J	Tape & Reel
110 OHM	1W	5%	±250 ppm	5073NW110R0J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	1W	5%	± 250 ppm	5073NW120R0J	Tape & Reel
130 OHM	1W	5%	± 250 ppm	5073NW130R0J	Tape & Reel
150 OHM	1W	5%	± 250 ppm	5073NW150R0J	Tape & Reel
160 OHM	1W	5%	± 250 ppm	5073NW160R0J	Tape & Reel
180 OHM	1W	5%	± 250 ppm	5073NW180R0J	Tape & Reel
200 OHM	1W	5%	± 250 ppm	5073NW200R0J	Tape & Reel
220 OHM	1W	5%	± 250 ppm	5073NW220R0J	Tape & Reel
240 OHM	1W	5%	± 250 ppm	5073NW240R0J	Tape & Reel
270 OHM	1W	5%	± 250 ppm	5073NW270R0J	Tape & Reel
300 OHM	1W	5%	± 250 ppm	5073NW300R0J	Tape & Reel
330 OHM	1W	5%	± 250 ppm	5073NW330R0J	Tape & Reel
360 OHM	1W	5%	± 250 ppm	5073NW360R0J	Tape & Reel
390 OHM	1W	5%	± 250 ppm	5073NW390R0J	Tape & Reel
430 OHM	1W	5%	± 250 ppm	5073NW430R0J	Tape & Reel
470 OHM	1W	5%	± 250 ppm	5073NW470R0J	Tape & Reel
510 OHM	1W	5%	± 250 ppm	5073NW510R0J	Tape & Reel
560 OHM	1W	5%	± 250 ppm	5073NW560R0J	Tape & Reel
620 OHM	1W	5%	± 250 ppm	5073NW620R0J	Tape & Reel
680 OHM	1W	5%	± 250 ppm	5073NW680R0J	Tape & Reel
750 OHM	1W	5%	± 250 ppm	5073NW750R0J	Tape & Reel
820 OHM	1W	5%	± 250 ppm	5073NW820R0J	Tape & Reel
910 OHM	1W	5%	± 250 ppm	5073NW910R0J	Tape & Reel
1 K OHM	1W	5%	± 250 ppm	5073NW1K000J	Tape & Reel
1.1 K OHM	1W	5%	± 250 ppm	5073NW1K100J	Tape & Reel
1.2 K OHM	1W	5%	± 250 ppm	5073NW1K200J	Tape & Reel
1.3 K OHM	1W	5%	± 250 ppm	5073NW1K300J	Tape & Reel
1.5 K OHM	1W	5%	± 250 ppm	5073NW1K500J	Tape & Reel
1.6 K OHM	1W	5%	± 250 ppm	5073NW1K600J	Tape & Reel
1.8 K OHM	1W	5%	± 250 ppm	5073NW1K800J	Tape & Reel
2 K OHM	1W	5%	± 250 ppm	5073NW2K000J	Tape & Reel
2.2 K OHM	1W	5%	± 250 ppm	5073NW2K200J	Tape & Reel
2.4 K OHM	1W	5%	± 250 ppm	5073NW2K400J	Tape & Reel
2.7 K OHM	1W	5%	± 250 ppm	5073NW2K700J	Tape & Reel
3 K OHM	1W	5%	± 250 ppm	5073NW3K000J	Tape & Reel
3.3 K OHM	1W	5%	± 250 ppm	5073NW3K300J	Tape & Reel
3.6 K OHM	1W	5%	± 250 ppm	5073NW3K600J	Tape & Reel
3.9 K OHM	1W	5%	± 250 ppm	5073NW3K900J	Tape & Reel
4.3 K OHM	1W	5%	± 250 ppm	5073NW4K300J	Tape & Reel
4.7 K OHM	1W	5%	± 250 ppm	5073NW4K700J	Tape & Reel
5.1 K OHM	1W	5%	± 250 ppm	5073NW5K100J	Tape & Reel
5.6 K OHM	1W	5%	± 250 ppm	5073NW5K600J	Tape & Reel
6.2 K OHM	1W	5%	± 250 ppm	5073NW6K200J	Tape & Reel
6.8 K OHM	1W	5%	± 250 ppm	5073NW6K800J	Tape & Reel
7.5 K OHM	1W	5%	± 250 ppm	5073NW7K500J	Tape & Reel
8.2 K OHM	1W	5%	± 250 ppm	5073NW8K200J	Tape & Reel
9.1 K OHM	1W	5%	± 250 ppm	5073NW9K100J	Tape & Reel
10 K OHM	1W	5%	± 250 ppm	5073NW10K00J	Tape & Reel
11 K OHM	1W	5%	± 250 ppm	5073NW11K00J	Tape & Reel
12 K OHM	1W	5%	± 250 ppm	5073NW12K00J	Tape & Reel
13 K OHM	1W	5%	± 250 ppm	5073NW13K00J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Power Metal Film Axial Lead Resistor

Series 5073NW

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15 K OHM	1W	5%	±250 ppm	5073NW15K00J	Tape & Reel
16 K OHM	1W	5%	±250 ppm	5073NW16K00J	Tape & Reel
18 K OHM	1W	5%	±250 ppm	5073NW18K00J	Tape & Reel
20 K OHM	1W	5%	±250 ppm	5073NW20K00J	Tape & Reel
22 K OHM	1W	5%	±250 ppm	5073NW22K00J	Tape & Reel
24 K OHM	1W	5%	±250 ppm	5073NW24K00J	Tape & Reel
27 K OHM	1W	5%	±250 ppm	5073NW27K00J	Tape & Reel
30 K OHM	1W	5%	±250 ppm	5073NW30K00J	Tape & Reel
33 K OHM	1W	5%	±250 ppm	5073NW33K00J	Tape & Reel
36 K OHM	1W	5%	±250 ppm	5073NW36K00J	Tape & Reel
39 K OHM	1W	5%	±250 ppm	5073NW39K00J	Tape & Reel
43 K OHM	1W	5%	±250 ppm	5073NW43K00J	Tape & Reel
47 K OHM	1W	5%	±250 ppm	5073NW47K00J	Tape & Reel
51 K OHM	1W	5%	±250 ppm	5073NW51K00J	Tape & Reel
56 K OHM	1W	5%	±250 ppm	5073NW56K00J	Tape & Reel
62 K OHM	1W	5%	±250 ppm	5073NW62K00J	Tape & Reel
68 K OHM	1W	5%	±250 ppm	5073NW68K00J	Tape & Reel
75 K OHM	1W	5%	±250 ppm	5073NW75K00J	Tape & Reel
82 K OHM	1W	5%	±250 ppm	5073NW82K00J	Tape & Reel
91 K OHM	1W	5%	±250 ppm	5073NW91K00J	Tape & Reel
100 K OHM	1W	5%	±250 ppm	5073NW100K0J	Tape & Reel
110 K OHM	1W	5%	±250 ppm	5073NW110K0J	Tape & Reel
120 K OHM	1W	5%	±250 ppm	5073NW120K0J	Tape & Reel
130 K OHM	1W	5%	±250 ppm	5073NW130K0J	Tape & Reel
150 K OHM	1W	5%	±250 ppm	5073NW150K0J	Tape & Reel
160 K OHM	1W	5%	±250 ppm	5073NW160K0J	Tape & Reel
180 K OHM	1W	5%	±250 ppm	5073NW180K0J	Tape & Reel
200 K OHM	1W	5%	±250 ppm	5073NW200K0J	Tape & Reel
220 K OHM	1W	5%	±250 ppm	5073NW220K0J	Tape & Reel
240 K OHM	1W	5%	±250 ppm	5073NW240K0J	Tape & Reel
270 K OHM	1W	5%	±250 ppm	5073NW270K0J	Tape & Reel
300 K OHM	1W	5%	±250 ppm	5073NW300K0J	Tape & Reel
330 K OHM	1W	5%	±250 ppm	5073NW330K0J	Tape & Reel
360 K OHM	1W	5%	±250 ppm	5073NW360K0J	Tape & Reel
390 K OHM	1W	5%	±250 ppm	5073NW390K0J	Tape & Reel
430 K OHM	1W	5%	±250 ppm	5073NW430K0J	Tape & Reel
470 K OHM	1W	5%	±250 ppm	5073NW470K0J	Tape & Reel
510 K OHM	1W	5%	±250 ppm	5073NW510K0J	Tape & Reel
560 K OHM	1W	5%	±250 ppm	5073NW560K0J	Tape & Reel
620 K OHM	1W	5%	±250 ppm	5073NW620K0J	Tape & Reel
680 K OHM	1W	5%	±250 ppm	5073NW680K0J	Tape & Reel
750 K OHM	1W	5%	±250 ppm	5073NW750K0J	Tape & Reel
820 K OHM	1W	5%	±250 ppm	5073NW820K0J	Tape & Reel
910 K OHM	1W	5%	±250 ppm	5073NW910K0J	Tape & Reel
1 M OHM	1W	5%	±250 ppm	5073NW1M000J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1 OHM	2W	5%	±250 ppm	5083NW1R00J	Tape & Reel
1.1 OHM	2W	5%	±250 ppm	5083NW1R10J	Tape & Reel
1.2 OHM	2W	5%	±250 ppm	5083NW1R20J	Tape & Reel
1.3 OHM	2W	5%	±250 ppm	5083NW1R30J	Tape & Reel
1.5 OHM	2W	5%	±250 ppm	5083NW1R50J	Tape & Reel
1.6 OHM	2W	5%	±250 ppm	5083NW1R60J	Tape & Reel
1.8 OHM	2W	5%	±250 ppm	5083NW1R80J	Tape & Reel
2 OHM	2W	5%	±250 ppm	5083NW2R00J	Tape & Reel
2.2 OHM	2W	5%	±250 ppm	5083NW2R20J	Tape & Reel
2.4 OHM	2W	5%	±250 ppm	5083NW2R40J	Tape & Reel
2.7 OHM	2W	5%	±250 ppm	5083NW2R70J	Tape & Reel
3 OHM	2W	5%	±250 ppm	5083NW3R00J	Tape & Reel
3.3 OHM	2W	5%	±250 ppm	5083NW3R30J	Tape & Reel
3.6 OHM	2W	5%	±250 ppm	5083NW3R60J	Tape & Reel
3.9 OHM	2W	5%	±250 ppm	5083NW3R90J	Tape & Reel
4.3 OHM	2W	5%	±250 ppm	5083NW4R30J	Tape & Reel
4.7 OHM	2W	5%	±250 ppm	5083NW4R70J	Tape & Reel
5.1 OHM	2W	5%	±250 ppm	5083NW5R10J	Tape & Reel
5.6 OHM	2W	5%	±250 ppm	5083NW5R60J	Tape & Reel
6.2 OHM	2W	5%	±250 ppm	5083NW6R20J	Tape & Reel
6.8 OHM	2W	5%	±250 ppm	5083NW6R80J	Tape & Reel
7.5 OHM	2W	5%	±250 ppm	5083NW7R50J	Tape & Reel
8.2 OHM	2W	5%	±250 ppm	5083NW8R20J	Tape & Reel
9.1 OHM	2W	5%	±250 ppm	5083NW9R10J	Tape & Reel
10 OHM	2W	5%	±250 ppm	5083NW10R0J	Tape & Reel
11 OHM	2W	5%	±250 ppm	5083NW11R0J	Tape & Reel
12 OHM	2W	5%	±250 ppm	5083NW12R0J	Tape & Reel
13 OHM	2W	5%	±250 ppm	5083NW13R0J	Tape & Reel
15 OHM	2W	5%	±250 ppm	5083NW15R0J	Tape & Reel
16 OHM	2W	5%	±250 ppm	5083NW16R0J	Tape & Reel
18 OHM	2W	5%	±250 ppm	5083NW18R0J	Tape & Reel
20 OHM	2W	5%	±250 ppm	5083NW20R0J	Tape & Reel
22 OHM	2W	5%	±250 ppm	5083NW22R0J	Tape & Reel
24 OHM	2W	5%	±250 ppm	5083NW24R0J	Tape & Reel
27 OHM	2W	5%	±250 ppm	5083NW27R0J	Tape & Reel
30 OHM	2W	5%	±250 ppm	5083NW30R0J	Tape & Reel
33 OHM	2W	5%	±250 ppm	5083NW33R0J	Tape & Reel
36 OHM	2W	5%	±250 ppm	5083NW36R0J	Tape & Reel
39 OHM	2W	5%	±250 ppm	5083NW39R0J	Tape & Reel
43 OHM	2W	5%	±250 ppm	5083NW43R0J	Tape & Reel
47 OHM	2W	5%	±250 ppm	5083NW47R0J	Tape & Reel
51 OHM	2W	5%	±250 ppm	5083NW51R0J	Tape & Reel
56 OHM	2W	5%	±250 ppm	5083NW56R0J	Tape & Reel
62 OHM	2W	5%	±250 ppm	5083NW62R0J	Tape & Reel
68 OHM	2W	5%	±250 ppm	5083NW68R0J	Tape & Reel
75 OHM	2W	5%	±250 ppm	5083NW75R0J	Tape & Reel
82 OHM	2W	5%	±250 ppm	5083NW82R0J	Tape & Reel
91 OHM	2W	5%	±250 ppm	5083NW91R0J	Tape & Reel
100 OHM	2W	5%	±250 ppm	5083NW100R0J	Tape & Reel
110 OHM	2W	5%	±250 ppm	5083NW110R0J	Tape & Reel

TAPE & REEL QUANTITY = 5000
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Power Metal Film Axial Lead Resistor

Series 5083NW

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	2W	5%	±250 ppm	5083NW120R0J	Tape & Reel
130 OHM	2W	5%	±250 ppm	5083NW130R0J	Tape & Reel
150 OHM	2W	5%	±250 ppm	5083NW150R0J	Tape & Reel
160 OHM	2W	5%	±250 ppm	5083NW160R0J	Tape & Reel
180 OHM	2W	5%	±250 ppm	5083NW180R0J	Tape & Reel
200 OHM	2W	5%	±250 ppm	5083NW200R0J	Tape & Reel
220 OHM	2W	5%	±250 ppm	5083NW220R0J	Tape & Reel
240 OHM	2W	5%	±250 ppm	5083NW240R0J	Tape & Reel
270 OHM	2W	5%	±250 ppm	5083NW270R0J	Tape & Reel
300 OHM	2W	5%	±250 ppm	5083NW300R0J	Tape & Reel
330 OHM	2W	5%	±250 ppm	5083NW330R0J	Tape & Reel
360 OHM	2W	5%	±250 ppm	5083NW360R0J	Tape & Reel
390 OHM	2W	5%	±250 ppm	5083NW390R0J	Tape & Reel
430 OHM	2W	5%	±250 ppm	5083NW430R0J	Tape & Reel
470 OHM	2W	5%	±250 ppm	5083NW470R0J	Tape & Reel
510 OHM	2W	5%	±250 ppm	5083NW510R0J	Tape & Reel
560 OHM	2W	5%	±250 ppm	5083NW560R0J	Tape & Reel
620 OHM	2W	5%	±250 ppm	5083NW620R0J	Tape & Reel
680 OHM	2W	5%	±250 ppm	5083NW680R0J	Tape & Reel
750 OHM	2W	5%	±250 ppm	5083NW750R0J	Tape & Reel
820 OHM	2W	5%	±250 ppm	5083NW820R0J	Tape & Reel
910 OHM	2W	5%	±250 ppm	5083NW910R0J	Tape & Reel
1 K OHM	2W	5%	±250 ppm	5083NW1K000J	Tape & Reel
1.1 K OHM	2W	5%	±250 ppm	5083NW1K100J	Tape & Reel
1.2 K OHM	2W	5%	±250 ppm	5083NW1K200J	Tape & Reel
1.3 K OHM	2W	5%	±250 ppm	5083NW1K300J	Tape & Reel
1.5 K OHM	2W	5%	±250 ppm	5083NW1K500J	Tape & Reel
1.6 K OHM	2W	5%	±250 ppm	5083NW1K600J	Tape & Reel
1.8 K OHM	2W	5%	±250 ppm	5083NW1K800J	Tape & Reel
2 K OHM	2W	5%	±250 ppm	5083NW2K000J	Tape & Reel
2.2 K OHM	2W	5%	±250 ppm	5083NW2K200J	Tape & Reel
2.4 K OHM	2W	5%	±250 ppm	5083NW2K400J	Tape & Reel
2.7 K OHM	2W	5%	±250 ppm	5083NW2K700J	Tape & Reel
3 K OHM	2W	5%	±250 ppm	5083NW3K000J	Tape & Reel
3.3 K OHM	2W	5%	±250 ppm	5083NW3K300J	Tape & Reel
3.6 K OHM	2W	5%	±250 ppm	5083NW3K600J	Tape & Reel
3.9 K OHM	2W	5%	±250 ppm	5083NW3K900J	Tape & Reel
4.3 K OHM	2W	5%	±250 ppm	5083NW4K300J	Tape & Reel
4.7 K OHM	2W	5%	±250 ppm	5083NW4K700J	Tape & Reel
5.1 K OHM	2W	5%	±250 ppm	5083NW5K100J	Tape & Reel
5.6 K OHM	2W	5%	±250 ppm	5083NW5K600J	Tape & Reel
6.2 K OHM	2W	5%	±250 ppm	5083NW6K200J	Tape & Reel
6.8 K OHM	2W	5%	±250 ppm	5083NW6K800J	Tape & Reel
7.5 K OHM	2W	5%	±250 ppm	5083NW7K500J	Tape & Reel
8.2 K OHM	2W	5%	±250 ppm	5083NW8K200J	Tape & Reel
9.1 K OHM	2W	5%	±250 ppm	5083NW9K100J	Tape & Reel
10 K OHM	2W	5%	±250 ppm	5083NW10K00J	Tape & Reel
11 K OHM	2W	5%	±250 ppm	5083NW11K00J	Tape & Reel
12 K OHM	2W	5%	±250 ppm	5083NW12K00J	Tape & Reel
13 K OHM	2W	5%	±250 ppm	5083NW13K00J	Tape & Reel

TAPE & REEL QUANTITY = 5000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15 K OHM	2W	5%	±250 ppm	5083NW15K00J	Tape & Reel
16 K OHM	2W	5%	±250 ppm	5083NW16K00J	Tape & Reel
18 K OHM	2W	5%	±250 ppm	5083NW18K00J	Tape & Reel
20 K OHM	2W	5%	±250 ppm	5083NW20K00J	Tape & Reel
22 K OHM	2W	5%	±250 ppm	5083NW22K00J	Tape & Reel
24 K OHM	2W	5%	±250 ppm	5083NW24K00J	Tape & Reel
27 K OHM	2W	5%	±250 ppm	5083NW27K00J	Tape & Reel
30 K OHM	2W	5%	±250 ppm	5083NW30K00J	Tape & Reel
33 K OHM	2W	5%	±250 ppm	5083NW33K00J	Tape & Reel
36 K OHM	2W	5%	±250 ppm	5083NW36K00J	Tape & Reel
39 K OHM	2W	5%	±250 ppm	5083NW39K00J	Tape & Reel
43 K OHM	2W	5%	±250 ppm	5083NW43K00J	Tape & Reel
47 K OHM	2W	5%	±250 ppm	5083NW47K00J	Tape & Reel
51 K OHM	2W	5%	±250 ppm	5083NW51K00J	Tape & Reel
56 K OHM	2W	5%	±250 ppm	5083NW56K00J	Tape & Reel
62 K OHM	2W	5%	±250 ppm	5083NW62K00J	Tape & Reel
68 K OHM	2W	5%	±250 ppm	5083NW68K00J	Tape & Reel
75 K OHM	2W	5%	±250 ppm	5083NW75K00J	Tape & Reel
82 K OHM	2W	5%	±250 ppm	5083NW82K00J	Tape & Reel
91 K OHM	2W	5%	±250 ppm	5083NW91K00J	Tape & Reel
100 K OHM	2W	5%	±250 ppm	5083NW100K0J	Tape & Reel
110 K OHM	2W	5%	±250 ppm	5083NW110K0J	Tape & Reel
120 K OHM	2W	5%	±250 ppm	5083NW120K0J	Tape & Reel
130 K OHM	2W	5%	±250 ppm	5083NW130K0J	Tape & Reel
150 K OHM	2W	5%	±250 ppm	5083NW150K0J	Tape & Reel
160 K OHM	2W	5%	±250 ppm	5083NW160K0J	Tape & Reel
180 K OHM	2W	5%	±250 ppm	5083NW180K0J	Tape & Reel
200 K OHM	2W	5%	±250 ppm	5083NW200K0J	Tape & Reel
220 K OHM	2W	5%	±250 ppm	5083NW220K0J	Tape & Reel
240 K OHM	2W	5%	±250 ppm	5083NW240K0J	Tape & Reel
270 K OHM	2W	5%	±250 ppm	5083NW270K0J	Tape & Reel
300 K OHM	2W	5%	±250 ppm	5083NW300K0J	Tape & Reel
330 K OHM	2W	5%	±250 ppm	5083NW330K0J	Tape & Reel
360 K OHM	2W	5%	±250 ppm	5083NW360K0J	Tape & Reel
390 K OHM	2W	5%	±250 ppm	5083NW390K0J	Tape & Reel
430 K OHM	2W	5%	±250 ppm	5083NW430K0J	Tape & Reel
470 K OHM	2W	5%	±250 ppm	5083NW470K0J	Tape & Reel
510 K OHM	2W	5%	±250 ppm	5083NW510K0J	Tape & Reel
560 K OHM	2W	5%	±250 ppm	5083NW560K0J	Tape & Reel
620 K OHM	2W	5%	±250 ppm	5083NW620K0J	Tape & Reel
680 K OHM	2W	5%	±250 ppm	5083NW680K0J	Tape & Reel
750 K OHM	2W	5%	±250 ppm	5083NW750K0J	Tape & Reel
820 K OHM	2W	5%	±250 ppm	5083NW820K0J	Tape & Reel
910 K OHM	2W	5%	±250 ppm	5083NW910K0J	Tape & Reel
1 M OHM	2W	5%	±250 ppm	5083NW1M000J	Tape & Reel

Power Metal Film Axial Lead Resistor

Series 5093NW

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
1 OHM	3W	5%	±250 ppm	5093NW1R00J	Ammo
1.1 OHM	3W	5%	±250 ppm	5093NW1R10J	Ammo
1.2 OHM	3W	5%	±250 ppm	5093NW1R20J	Ammo
1.3 OHM	3W	5%	±250 ppm	5093NW1R30J	Ammo
1.5 OHM	3W	5%	±250 ppm	5093NW1R50J	Ammo
1.6 OHM	3W	5%	±250 ppm	5093NW1R60J	Ammo
1.8 OHM	3W	5%	±250 ppm	5093NW1R80J	Ammo
2 OHM	3W	5%	±250 ppm	5093NW2R00J	Ammo
2.2 OHM	3W	5%	±250 ppm	5093NW2R20J	Ammo
2.4 OHM	3W	5%	±250 ppm	5093NW2R40J	Ammo
2.7 OHM	3W	5%	±250 ppm	5093NW2R70J	Ammo
3 OHM	3W	5%	±250 ppm	5093NW3R00J	Ammo
3.3 OHM	3W	5%	±250 ppm	5093NW3R30J	Ammo
3.6 OHM	3W	5%	±250 ppm	5093NW3R60J	Ammo
3.9 OHM	3W	5%	±250 ppm	5093NW3R90J	Ammo
4.3 OHM	3W	5%	±250 ppm	5093NW4R30J	Ammo
4.7 OHM	3W	5%	±250 ppm	5093NW4R70J	Ammo
5.1 OHM	3W	5%	±250 ppm	5093NW5R10J	Ammo
5.6 OHM	3W	5%	±250 ppm	5093NW5R60J	Ammo
6.2 OHM	3W	5%	±250 ppm	5093NW6R20J	Ammo
6.8 OHM	3W	5%	±250 ppm	5093NW6R80J	Ammo
7.5 OHM	3W	5%	±250 ppm	5093NW7R50J	Ammo
8.2 OHM	3W	5%	±250 ppm	5093NW8R20J	Ammo
9.1 OHM	3W	5%	±250 ppm	5093NW9R10J	Ammo
10 OHM	3W	5%	±250 ppm	5093NW10R0J	Ammo
11 OHM	3W	5%	±250 ppm	5093NW11R0J	Ammo
12 OHM	3W	5%	±250 ppm	5093NW12R0J	Ammo
13 OHM	3W	5%	±250 ppm	5093NW13R0J	Ammo
15 OHM	3W	5%	±250 ppm	5093NW15R0J	Ammo
16 OHM	3W	5%	±250 ppm	5093NW16R0J	Ammo
18 OHM	3W	5%	±250 ppm	5093NW18R0J	Ammo
20 OHM	3W	5%	±250 ppm	5093NW20R0J	Ammo
22 OHM	3W	5%	±250 ppm	5093NW22R0J	Ammo
24 OHM	3W	5%	±250 ppm	5093NW24R0J	Ammo
27 OHM	3W	5%	±250 ppm	5093NW27R0J	Ammo
30 OHM	3W	5%	±250 ppm	5093NW30R0J	Ammo
33 OHM	3W	5%	±250 ppm	5093NW33R0J	Ammo
36 OHM	3W	5%	±250 ppm	5093NW36R0J	Ammo
39 OHM	3W	5%	±250 ppm	5093NW39R0J	Ammo
43 OHM	3W	5%	±250 ppm	5093NW43R0J	Ammo
47 OHM	3W	5%	±250 ppm	5093NW47R0J	Ammo
51 OHM	3W	5%	±250 ppm	5093NW51R0J	Ammo
56 OHM	3W	5%	±250 ppm	5093NW56R0J	Ammo
62 OHM	3W	5%	±250 ppm	5093NW62R0J	Ammo
68 OHM	3W	5%	±250 ppm	5093NW68R0J	Ammo
75 OHM	3W	5%	±250 ppm	5093NW75R0J	Ammo
82 OHM	3W	5%	±250 ppm	5093NW82R0J	Ammo
91 OHM	3W	5%	±250 ppm	5093NW91R0J	Ammo
100 OHM	3W	5%	±250 ppm	5093NW100R0J	Ammo
110 OHM	3W	5%	±250 ppm	5093NW110R0J	Ammo

AMMO PACK QUANTITY = 1,000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
120 OHM	3W	5%	±250 ppm	5093NW120R0J	Ammo
130 OHM	3W	5%	±250 ppm	5093NW130R0J	Ammo
150 OHM	3W	5%	±250 ppm	5093NW150R0J	Ammo
160 OHM	3W	5%	±250 ppm	5093NW160R0J	Ammo
180 OHM	3W	5%	±250 ppm	5093NW180R0J	Ammo
200 OHM	3W	5%	±250 ppm	5093NW200R0J	Ammo
220 OHM	3W	5%	±250 ppm	5093NW220R0J	Ammo
240 OHM	3W	5%	±250 ppm	5093NW240R0J	Ammo
270 OHM	3W	5%	±250 ppm	5093NW270R0J	Ammo
300 OHM	3W	5%	±250 ppm	5093NW300R0J	Ammo
330 OHM	3W	5%	±250 ppm	5093NW330R0J	Ammo
360 OHM	3W	5%	±250 ppm	5093NW360R0J	Ammo
390 OHM	3W	5%	±250 ppm	5093NW390R0J	Ammo
430 OHM	3W	5%	±250 ppm	5093NW430R0J	Ammo
470 OHM	3W	5%	±250 ppm	5093NW470R0J	Ammo
510 OHM	3W	5%	±250 ppm	5093NW510R0J	Ammo
560 OHM	3W	5%	±250 ppm	5093NW560R0J	Ammo
620 OHM	3W	5%	±250 ppm	5093NW620R0J	Ammo
680 OHM	3W	5%	±250 ppm	5093NW680R0J	Ammo
750 OHM	3W	5%	±250 ppm	5093NW750R0J	Ammo
820 OHM	3W	5%	±250 ppm	5093NW820R0J	Ammo
910 OHM	3W	5%	±250 ppm	5093NW910R0J	Ammo
1 K OHM	3W	5%	±250 ppm	5093NW1K000J	Ammo
1.1 K OHM	3W	5%	±250 ppm	5093NW1K100J	Ammo
1.2 K OHM	3W	5%	±250 ppm	5093NW1K200J	Ammo
1.3 K OHM	3W	5%	±250 ppm	5093NW1K300J	Ammo
1.5 K OHM	3W	5%	±250 ppm	5093NW1K500J	Ammo
1.6 K OHM	3W	5%	±250 ppm	5093NW1K600J	Ammo
1.8 K OHM	3W	5%	±250 ppm	5093NW1K800J	Ammo
2 K OHM	3W	5%	±250 ppm	5093NW2K000J	Ammo
2.2 K OHM	3W	5%	±250 ppm	5093NW2K200J	Ammo
2.4 K OHM	3W	5%	±250 ppm	5093NW2K400J	Ammo
2.7 K OHM	3W	5%	±250 ppm	5093NW2K700J	Ammo
3 K OHM	3W	5%	±250 ppm	5093NW3K000J	Ammo
3.3 K OHM	3W	5%	±250 ppm	5093NW3K300J	Ammo
3.6 K OHM	3W	5%	±250 ppm	5093NW3K600J	Ammo
3.9 K OHM	3W	5%	±250 ppm	5093NW3K900J	Ammo
4.3 K OHM	3W	5%	±250 ppm	5093NW4K300J	Ammo
4.7 K OHM	3W	5%	±250 ppm	5093NW4K700J	Ammo
5.1 K OHM	3W	5%	±250 ppm	5093NW5K100J	Ammo
5.6 K OHM	3W	5%	±250 ppm	5093NW5K600J	Ammo
6.2 K OHM	3W	5%	±250 ppm	5093NW6K200J	Ammo
6.8 K OHM	3W	5%	±250 ppm	5093NW6K800J	Ammo
7.5 K OHM	3W	5%	±250 ppm	5093NW7K500J	Ammo
8.2 K OHM	3W	5%	±250 ppm	5093NW8K200J	Ammo
9.1 K OHM	3W	5%	±250 ppm	5093NW9K100J	Ammo
10 K OHM	3W	5%	±250 ppm	5093NW10K00J	Ammo
11 K OHM	3W	5%	±250 ppm	5093NW11K00J	Ammo
12 K OHM	3W	5%	±250 ppm	5093NW12K00J	Ammo
13 K OHM	3W	5%	±250 ppm	5093NW13K00J	Ammo

Power Metal Film Axial Lead Resistor

Series 5093NW

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
15 K OHM	3W	5%	±250 ppm	5093NW15K00J	Ammo
16 K OHM	3W	5%	±250 ppm	5093NW16K00J	Ammo
18 K OHM	3W	5%	±250 ppm	5093NW18K00J	Ammo
20 K OHM	3W	5%	±250 ppm	5093NW20K00J	Ammo
22 K OHM	3W	5%	±250 ppm	5093NW22K00J	Ammo
24 K OHM	3W	5%	±250 ppm	5093NW24K00J	Ammo
27 K OHM	3W	5%	±250 ppm	5093NW27K00J	Ammo
30 K OHM	3W	5%	±250 ppm	5093NW30K00J	Ammo
33 K OHM	3W	5%	±250 ppm	5093NW33K00J	Ammo
36 K OHM	3W	5%	±250 ppm	5093NW36K00J	Ammo
39 K OHM	3W	5%	±250 ppm	5093NW39K00J	Ammo
43 K OHM	3W	5%	±250 ppm	5093NW43K00J	Ammo
47 K OHM	3W	5%	±250 ppm	5093NW47K00J	Ammo
51 K OHM	3W	5%	±250 ppm	5093NW51K00J	Ammo
56 K OHM	3W	5%	±250 ppm	5093NW56K00J	Ammo
62 K OHM	3W	5%	±250 ppm	5093NW62K00J	Ammo
68 K OHM	3W	5%	±250 ppm	5093NW68K00J	Ammo
75 K OHM	3W	5%	±250 ppm	5093NW75K00J	Ammo
82 K OHM	3W	5%	±250 ppm	5093NW82K00J	Ammo
91 K OHM	3W	5%	±250 ppm	5093NW91K00J	Ammo
100 K OHM	3W	5%	±250 ppm	5093NW100K0J	Ammo
110 K OHM	3W	5%	±250 ppm	5093NW110K0J	Ammo
120 K OHM	3W	5%	±250 ppm	5093NW120K0J	Ammo
130 K OHM	3W	5%	±250 ppm	5093NW130K0J	Ammo
150 K OHM	3W	5%	±250 ppm	5093NW150K0J	Ammo
160 K OHM	3W	5%	±250 ppm	5093NW160K0J	Ammo
180 K OHM	3W	5%	±250 ppm	5093NW180K0J	Ammo
200 K OHM	3W	5%	±250 ppm	5093NW200K0J	Ammo
220 K OHM	3W	5%	±250 ppm	5093NW220K0J	Ammo
240 K OHM	3W	5%	±250 ppm	5093NW240K0J	Ammo
270 K OHM	3W	5%	±250 ppm	5093NW270K0J	Ammo
300 K OHM	3W	5%	±250 ppm	5093NW300K0J	Ammo
330 K OHM	3W	5%	±250 ppm	5093NW330K0J	Ammo
360 K OHM	3W	5%	±250 ppm	5093NW360K0J	Ammo
390 K OHM	3W	5%	±250 ppm	5093NW390K0J	Ammo
430 K OHM	3W	5%	±250 ppm	5093NW430K0J	Ammo
470 K OHM	3W	5%	±250 ppm	5093NW470K0J	Ammo
510 K OHM	3W	5%	±250 ppm	5093NW510K0J	Ammo
560 K OHM	3W	5%	±250 ppm	5093NW560K0J	Ammo
620 K OHM	3W	5%	±250 ppm	5093NW620K0J	Ammo
680 K OHM	3W	5%	±250 ppm	5093NW680K0J	Ammo
750 K OHM	3W	5%	±250 ppm	5093NW750K0J	Ammo
820 K OHM	3W	5%	±250 ppm	5093NW820K0J	Ammo
910 K OHM	3W	5%	±250 ppm	5093NW910K0J	Ammo
1 M OHM	3W	5%	±250 ppm	5093NW1M000J	Ammo

AMMO PACK QUANTITY = 1,000

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.



Zero Ohm Jumper Wire Series 50_0CX

Packaging

This series is available in 5K tape and reel

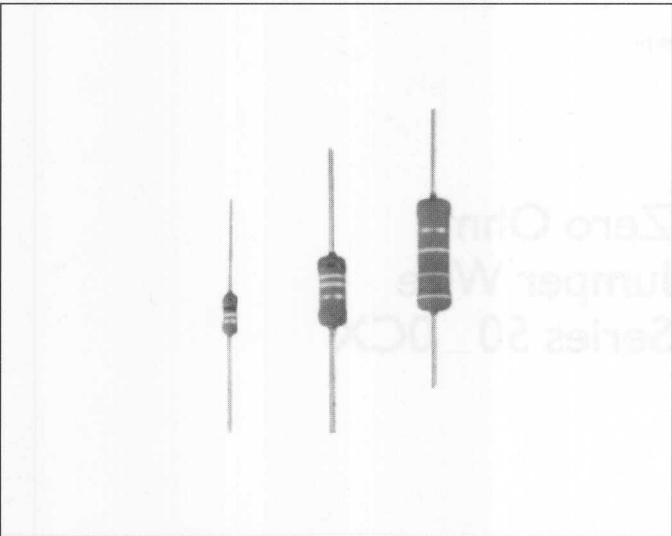
General Specifications

Solder plated, copper wire cut into the required length and taped to meet EIA RS296E, Class 1, Taping Requirements

Part Number	Wire Diameter	Resistance Range
5000CX0R000S	0.032 (20 gauge)	< 0.005Ω
5020CX0R000S	0.025 (22 gauge)	< 0.005Ω
5040CX0R000S	0.020 (24 gauge)	< 0.005Ω

Cemented Wirewound Axial Lead Resistor Series AC

PHILIPS



Cemented Wirewound Resistor Series AC

1-20 Watt
5% Tolerance
High Power Dissipation
High Pulse Load Handling

AC

01

W

49R90

J

Tolerance
J = 5%

Resistance Value

Temperature Coefficient

Power Rating

01 = 1 W
03 = 3 W
04 = 4 W
05 = 5 W
07 = 7 W
10 = 10 W
15 = 15 W
20 = 20 W

Style
Axial Cemented Resistor

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
AC01	1	0.1R-10R 10R-1.5K	±600 -80/+140	5
AC03	3	0.1R-10R 10R-3K	±600 -80/+140	5
AC04	4	0.1R-10R 10R-6.8K	±600 -80/+140	5
AC05	5	0.1R-10R 10R-8.2K	±600 -80/+140	5
AC07	7	0.1R-10R 10R-15K	±600 -80/+140	5
AC10	10	0.68R-10R 10R-15K	±600 -80/+140	5
AC15	15	0.82R-10R 10R-22K	±600 -80/+140	5
AC20	20	1.2R-10R 10R-33K	±600 -80/+140	5

Marking

Parts marked with Resistance value
 Tolerance
 Power Rating

Packaging

Ammo Pack - 1,000 pieces (1 W)
 500 pieces (3, 4, 5, 7, 10 W)
Bulk Pack - 100 pieces (15, 20 W)

PHILIPS

Cemented Wirewound Axial Lead Resistor Precision Series PAC



Cemented Wirewound Precision Resistor Series PAC

2 - 6 Watt
1% Tolerance
High Power Dissipation

PAC **02** **D** **49R90** **F**

Style
Axial Cemented Resistor

Power Rating
02 = 2 W
03 = 3 W
04 = 4 W
05 = 5 W
06 = 6 W

Temperature Coefficient
D = 100 PPM

Resistance Value
49R90

Tolerance
F = 1%

Marking

Parts marked with resistance value

Packaging

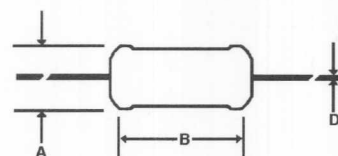
Ammo Pack - 500 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
PAC02	2	0.22R-3.6K	±100	1
PAC03	3	0.33R-4.7K	±100	1
PAC04	4	0.43R-8.2K	±100	1
PAC05	5	0.68R-10K	±100	1
PAC06	6	0.68R-12K	±100	1

Dimensions

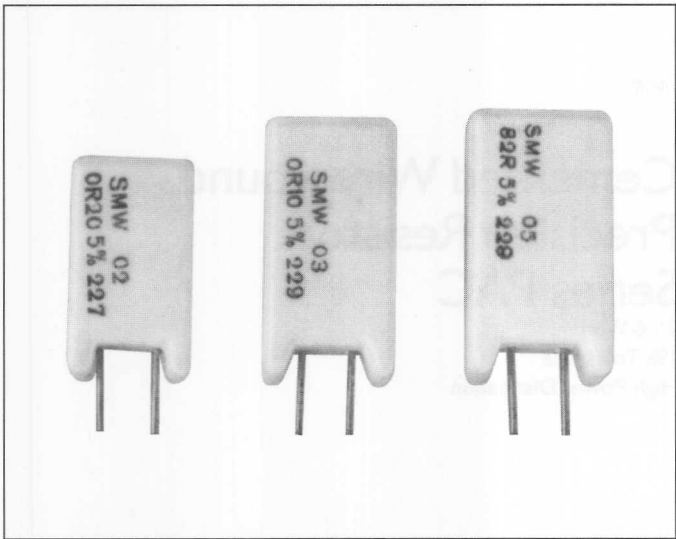
TYPE	A _{max} Inches (mm)	B _{max} Inches (mm)	D _{nom} Inches (mm)
PAC02	0.217 (5.5)	0.512 (13.0)	0.031 (0.8)
PAC03	0.217 (5.5)	0.669 (17.0)	0.031 (0.8)
PAC04	0.295 (7.5)	0.669 (17.0)	0.031 (0.8)
PAC05	0.295 (7.5)	0.906 (23.0)	0.031 (0.8)
PAC06	0.295 (7.5)	0.984 (25.0)	0.031 (0.8)



FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Stand-Up Miniature Radial Power Film Resistor Series SMW

PHILIPS



Stand-Up Wirewound Resistor Series SMW

2, 3, & 5 Watt
5% Tolerance
High Power Dissipation
Vertical Mounting

SMW

02

W

49R90

J

Tolerance
J = 5%

Resistance Value

Temperature Coefficient

Power Rating
02 = 2 W
03 = 3 W
05 = 5 W

Style
Stand-Up Resistor

Marking

Parts marked with

Resistance value
Tolerance
Style

Packaging

Bulk Pack - 500 pieces

General Specifications				
Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
SMW02	2	0.1R-10R 10R-200R	±600 ±140	5
SMW03	3	0.1R-10R 10R-560R	±600 ±140	5
SMW05	5	0.1R-10R 10R-560R	±600 ±140	5

Dimensions					
TYPE	W	D	H	L	P
SMW02	0.433 (11)	0.276 (7)	0.807 (20.5)	0.177 (4.5)	0.197 (5)
SMW03	0.472 (12)	0.315 (8)	0.984 (25)	0.177 (4.5)	0.197 (5)
SMW05	0.512 (13)	0.354 (9)	1.004 (25.5)	0.177 (4.5)	0.197 (5)



Cemented Wirewound Resistor Series LVR

5 Watt
5% Tolerance
Resistance Values Less Than 1Ω
Small Body Size

LVR	05	W	0R015	J
Style	Power Rating 05 = 5 W	Temperature Coefficient	Resistance Value	Tolerance J = 5%
Low Value Cemented Resistor				

Marking

Parts marked with Resistance value
Tolerance
Power Rating

Packaging

Bulk Pack - 250 pieces

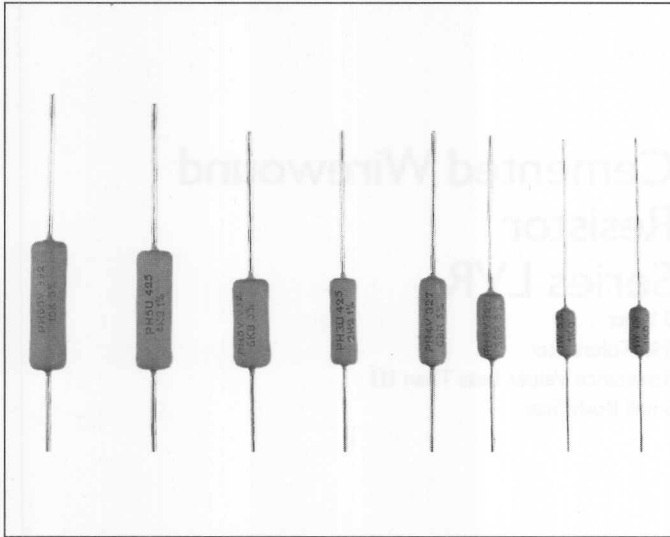
General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
LVR05	5	0.01R-0.10R	-0/+300	5

Dimensions

L Inches (mm)	W & H Inches (mm)	D Inches (mm)	c Inches (mm)
0.866 (22)	0.315 (8)	0.394 (10)	0.787 (20)

Wirewound Axial Lead Resistor



Wirewound Resistor Series PH

1, 3, 4, 5, & 6.5 Watt
1%, 3%, & 5% Tolerance
High Power Dissipation

PH	01	U	D	0R330	F
					Tolerance F = 1% H = 3% J = 5%
					Resistance Value
					Temperature Coefficient D = 90 PPM C = 50 PPM E = 30 PPM G = 20 PPM
					Type U = +275°C max. V = +350°C max.
					Power Rating 01 = 1 W 03 = 3 W 04 = 4 W 05 = 5 W 65 = 6.5 W
Style Axial Cemented Resistor					

Marking

Parts marked with Resistance value
Tolerance
Power Rating

Packaging

Bulk Pack - 500 pieces

General Specifications

Style	Max Pwr W	Resistance Range Ohms	TC PPM/°C	Tol %
PH01U	1	0.33R-1R 1R - 9.9R 9.9R-2K	±90 ±50 ±20	1, 3, 5
PH03U	3	0.33R-1R 1R - 9.9R 9.9R-4.7K	±90 ±50 ±20	1, 3, 5
PH05U	5	0.68R-1R 1R - 9.9R 9.9R-12K	±90 ±50 ±20	1, 3, 5
PH01V	1	0.33R-1R 1R - 9.9R 9.9R-2K	±90 ±50 ±30	3, 5
PH03V	3	0.22R-1R 1R - 9.9R 9.9R-4.7K	±90 ±50 ±30	3, 5
PH04V	4	0.33R-1R 1R - 9.9R 9.9R-4.7K	±90 ±50 ±30	3, 5
PH05V	5	0.43R-1R 1R - 9.9R 9.9R-8.2K	±90 ±50 ±30	3, 5
PH65V	6.5	0.68R-1R 1R-9.9R 9.9R-12K	±90 ±50 ±30	3, 5

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
0.33 OHM	1W	1%	±90 ppm	PH01U0R330F	Bulk
0.36 OHM	1W	1%	±90 ppm	PH01U0R360F	Bulk
0.39 OHM	1W	1%	±90 ppm	PH01U0R390F	Bulk
0.43 OHM	1W	1%	±90 ppm	PH01U0R430F	Bulk
0.47 OHM	1W	1%	±90 ppm	PH01U0R470F	Bulk
0.51 OHM	1W	1%	±90 ppm	PH01U0R510F	Bulk
0.56 OHM	1W	1%	±90 ppm	PH01U0R560F	Bulk
0.62 OHM	1W	1%	±90 ppm	PH01U0R620F	Bulk
0.68 OHM	1W	1%	±90 ppm	PH01U0R680F	Bulk
0.75 OHM	1W	1%	±90 ppm	PH01U0R750F	Bulk
0.82 OHM	1W	1%	±90 ppm	PH01U0R820F	Bulk
0.91 OHM	1W	1%	±50 ppm	PH01U0R910F	Bulk
1.0 OHM	1W	1%	±50 ppm	PH01U1R000F	Bulk
1.1 OHM	1W	1%	±50 ppm	PH01U1R100F	Bulk
1.2 OHM	1W	1%	±50 ppm	PH01U1R200F	Bulk
1.3 OHM	1W	1%	±50 ppm	PH01U1R300F	Bulk
1.5 OHM	1W	1%	±50 ppm	PH01U1R500F	Bulk
1.6 OHM	1W	1%	±50 ppm	PH01U1R600F	Bulk
1.8 OHM	1W	1%	±50 ppm	PH01U1R800F	Bulk
2.2 OHM	1W	1%	±50 ppm	PH01U2R200F	Bulk
2.4 OHM	1W	1%	±50 ppm	PH01U2R400F	Bulk
2.7 OHM	1W	1%	±50 ppm	PH01U2R700F	Bulk
3.0 OHM	1W	1%	±50 ppm	PH01U3R000F	Bulk
3.3 OHM	1W	1%	±50 ppm	PH01U3R300F	Bulk
3.6 OHM	1W	1%	±50 ppm	PH01U3R600F	Bulk
3.9 OHM	1W	1%	±50 ppm	PH01U3R900F	Bulk
4.3 OHM	1W	1%	±50 ppm	PH01U4R300F	Bulk
4.7 OHM	1W	1%	±50 ppm	PH01U4R700F	Bulk
5.1 OHM	1W	1%	±50 ppm	PH01U5R100F	Bulk
5.6 OHM	1W	1%	±50 ppm	PH01U5R600F	Bulk
6.2 OHM	1W	1%	±50 ppm	PH01U6R200F	Bulk
6.8 OHM	1W	1%	±50 ppm	PH01U6R800F	Bulk
7.5 OHM	1W	1%	±50 ppm	PH01U7R500F	Bulk
8.2 OHM	1W	1%	±50 ppm	PH01U8R200F	Bulk
9.1 OHM	1W	1%	±50 ppm	PH01U9R100F	Bulk
10 OHM	1W	1%	±50 ppm	PH01U10R00F	Bulk
11 OHM	1W	1%	±20 ppm	PH01U11R00F	Bulk
12 OHM	1W	1%	±20 ppm	PH01U12R00F	Bulk
13 OHM	1W	1%	±20 ppm	PH01U13R00F	Bulk
15 OHM	1W	1%	±20 ppm	PH01U15R00F	Bulk
16 OHM	1W	1%	±20 ppm	PH01U16R00F	Bulk
18 OHM	1W	1%	±20 ppm	PH01U18R00F	Bulk
20 OHM	1W	1%	±20 ppm	PH01U20R00F	Bulk
22 OHM	1W	1%	±20 ppm	PH01U22R00F	Bulk
24 OHM	1W	1%	±20 ppm	PH01U24R00F	Bulk
27 OHM	1W	1%	±20 ppm	PH01U27R00F	Bulk
30 OHM	1W	1%	±20 ppm	PH01U30R00F	Bulk
33 OHM	1W	1%	±20 ppm	PH01U33R00F	Bulk
36 OHM	1W	1%	±20 ppm	PH01U36R00F	Bulk
39 OHM	1W	1%	±20 ppm	PH01U39R00F	Bulk

Wirewound Axial Lead Resistor

Series PH01

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
43 OHM	1W	1%	±20 ppm	PH01U43R00F	Bulk
47 OHM	1W	1%	±20 ppm	PH01U47R00F	Bulk
51 OHM	1W	1%	±20 ppm	PH01U51R00F	Bulk
56 OHM	1W	1%	±20 ppm	PH01U56R00F	Bulk
62 OHM	1W	1%	±20 ppm	PH01U62R00F	Bulk
68 OHM	1W	1%	±20 ppm	PH01U68R00F	Bulk
75 OHM	1W	1%	±20 ppm	PH01U75R00F	Bulk
82 OHM	1W	1%	±20 ppm	PH01U82R00F	Bulk
91 OHM	1W	1%	±20 ppm	PH01U91R00F	Bulk
100 OHM	1W	1%	±20 ppm	PH01U100R0F	Bulk
110 OHM	1W	1%	±20 ppm	PH01U110R0F	Bulk
120 OHM	1W	1%	±20 ppm	PH01U120R0F	Bulk
130 OHM	1W	1%	±20 ppm	PH01U130R0F	Bulk
150 OHM	1W	1%	±20 ppm	PH01U150R0F	Bulk
160 OHM	1W	1%	±20 ppm	PH01U160R0F	Bulk
180 OHM	1W	1%	±20 ppm	PH01U180R0F	Bulk
200 OHM	1W	1%	±20 ppm	PH01U200R0F	Bulk
220 OHM	1W	1%	±20 ppm	PH01U220R0F	Bulk
240 OHM	1W	1%	±20 ppm	PH01U240R0F	Bulk
270 OHM	1W	1%	±20 ppm	PH01U270R0F	Bulk
300 OHM	1W	1%	±20 ppm	PH01U300R0F	Bulk
330 OHM	1W	1%	±20 ppm	PH01U330R0F	Bulk
360 OHM	1W	1%	±20 ppm	PH01U360R0F	Bulk
390 OHM	1W	1%	±20 ppm	PH01U390R0F	Bulk
430 OHM	1W	1%	±20 ppm	PH01U430R0F	Bulk
470 OHM	1W	1%	±20 ppm	PH01U470R0F	Bulk
510 OHM	1W	1%	±20 ppm	PH01U510R0F	Bulk
560 OHM	1W	1%	±20 ppm	PH01U560R0F	Bulk
620 OHM	1W	1%	±20 ppm	PH01U620R0F	Bulk
680 OHM	1W	1%	±20 ppm	PH01U680R0F	Bulk
750 OHM	1W	1%	±20 ppm	PH01U750R0F	Bulk
820 OHM	1W	1%	±20 ppm	PH01U820R0F	Bulk
910 OHM	1W	1%	±20 ppm	PH01U910R0F	Bulk
1 K OHM	1W	1%	±20 ppm	PH01U1K000F	Bulk
1.1 K OHM	1W	1%	±20 ppm	PH01U1K100F	Bulk
1.2 K OHM	1W	1%	±20 ppm	PH01U1K200F	Bulk
1.3 K OHM	1W	1%	±20 ppm	PH01U1K300F	Bulk
1.5 K OHM	1W	1%	±20 ppm	PH01U1K500F	Bulk
1.6 K OHM	1W	1%	±20 ppm	PH01U1K600F	Bulk
1.8 K OHM	1W	1%	±20 ppm	PH01U1K800F	Bulk
2 K OHM	1W	1%	±20 ppm	PH01U2K000F	Bulk

BULK = 500

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
0.33 OHM	3W	1%	±90 ppm	PH03U0R330F	Bulk
0.36 OHM	3W	1%	±90 ppm	PH03U0R360F	Bulk
0.39 OHM	3W	1%	±90 ppm	PH03U0R390F	Bulk
0.43 OHM	3W	1%	±90 ppm	PH03U0R430F	Bulk
0.47 OHM	3W	1%	±90 ppm	PH03U0R470F	Bulk
0.51 OHM	3W	1%	±90 ppm	PH03U0R510F	Bulk
0.56 OHM	3W	1%	±90 ppm	PH03U0R560F	Bulk
0.62 OHM	3W	1%	±90 ppm	PH03U0R620F	Bulk
0.68 OHM	3W	1%	±90 ppm	PH03U0R680F	Bulk
0.75 OHM	3W	1%	±90 ppm	PH03U0R750F	Bulk
0.82 OHM	3W	1%	±90 ppm	PH03U0R820F	Bulk
0.91 OHM	3W	1%	±90 ppm	PH03U0R910F	Bulk
1.0 OHM	3W	1%	±50 ppm	PH03U1R000F	Bulk
1.1 OHM	3W	1%	±50 ppm	PH03U1R100F	Bulk
1.2 OHM	3W	1%	±50 ppm	PH03U1R200F	Bulk
1.3 OHM	3W	1%	±50 ppm	PH03U1R300F	Bulk
1.5 OHM	3W	1%	±50 ppm	PH03U1R500F	Bulk
1.6 OHM	3W	1%	±50 ppm	PH03U1R600F	Bulk
1.8 OHM	3W	1%	±50 ppm	PH03U1R800F	Bulk
2.0 OHM	3W	1%	±50 ppm	PH03U2R000F	Bulk
2.2 OHM	3W	1%	±50 ppm	PH03U2R200F	Bulk
2.4 OHM	3W	1%	±50 ppm	PH03U2R400F	Bulk
2.7 OHM	3W	1%	±50 ppm	PH03U2R700F	Bulk
3.0 OHM	3W	1%	±50 ppm	PH03U3R000F	Bulk
3.3 OHM	3W	1%	±50 ppm	PH03U3R300F	Bulk
3.6 OHM	3W	1%	±50 ppm	PH03U3R600F	Bulk
3.9 OHM	3W	1%	±50 ppm	PH03U3R900F	Bulk
4.3 OHM	3W	1%	±50 ppm	PH03U4R300F	Bulk
4.7 OHM	3W	1%	±50 ppm	PH03U4R700F	Bulk
5.1 OHM	3W	1%	±50 ppm	PH03U5R100F	Bulk
5.6 OHM	3W	1%	±50 ppm	PH03U5R600F	Bulk
6.2 OHM	3W	1%	±50 ppm	PH03U6R200F	Bulk
6.8 OHM	3W	1%	±50 ppm	PH03U6R800F	Bulk
7.5 OHM	3W	1%	±50 ppm	PH03U7R500F	Bulk
8.2 OHM	3W	1%	±50 ppm	PH03U8R200F	Bulk
9.1 OHM	3W	1%	±50 ppm	PH03U9R100F	Bulk
10 OHM	3W	1%	±50 ppm	PH03U10R00F	Bulk
11 OHM	3W	1%	±20 ppm	PH03U11R00F	Bulk
12 OHM	3W	1%	±20 ppm	PH03U12R00F	Bulk
13 OHM	3W	1%	±20 ppm	PH03U13R00F	Bulk
15 OHM	3W	1%	±20 ppm	PH03U15R00F	Bulk
16 OHM	3W	1%	±20 ppm	PH03U16R00F	Bulk
18 OHM	3W	1%	±20 ppm	PH03U18R00F	Bulk
20 OHM	3W	1%	±20 ppm	PH03U20R00F	Bulk
22 OHM	3W	1%	±20 ppm	PH03U22R00F	Bulk
24 OHM	3W	1%	±20 ppm	PH03U24R00F	Bulk
27 OHM	3W	1%	±20 ppm	PH03U27R00F	Bulk
30 OHM	3W	1%	±20 ppm	PH03U30R00F	Bulk
33 OHM	3W	1%	±20 ppm	PH03U33R00F	Bulk
36 OHM	3W	1%	±20 ppm	PH03U36R00F	Bulk

BULK = 500

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Wirewound Axial Lead Resistor

Series PH03

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
39 OHM	3W	1%	±20 ppm	PH03U39R00F	Bulk
43 OHM	3W	1%	±20 ppm	PH03U43R00F	Bulk
47 OHM	3W	1%	±20 ppm	PH03U47R00F	Bulk
51 OHM	3W	1%	±20 ppm	PH03U51R00F	Bulk
56 OHM	3W	1%	±20 ppm	PH03U56R00F	Bulk
62 OHM	3W	1%	±20 ppm	PH03U62R00F	Bulk
68 OHM	3W	1%	±20 ppm	PH03U68R00F	Bulk
75 OHM	3W	1%	±20 ppm	PH03U75R00F	Bulk
82 OHM	3W	1%	±20 ppm	PH03U82R00F	Bulk
91 OHM	3W	1%	±20 ppm	PH03U91R00F	Bulk
100 OHM	3W	1%	±20 ppm	PH03U100R0F	Bulk
110 OHM	3W	1%	±20 ppm	PH03U110R0F	Bulk
120 OHM	3W	1%	±20 ppm	PH03U120R0F	Bulk
130 OHM	3W	1%	±20 ppm	PH03U130R0F	Bulk
150 OHM	3W	1%	±20 ppm	PH03U150R0F	Bulk
160 OHM	3W	1%	±20 ppm	PH03U160R0F	Bulk
180 OHM	3W	1%	±20 ppm	PH03U180R0F	Bulk
200 OHM	3W	1%	±20 ppm	PH03U200R0F	Bulk
220 OHM	3W	1%	±20 ppm	PH03U220R0F	Bulk
240 OHM	3W	1%	±20 ppm	PH03U240R0F	Bulk
270 OHM	3W	1%	±20 ppm	PH03U270R0F	Bulk
300 OHM	3W	1%	±20 ppm	PH03U300R0F	Bulk
330 OHM	3W	1%	±20 ppm	PH03U330R0F	Bulk
360 OHM	3W	1%	±20 ppm	PH03U360R0F	Bulk
390 OHM	3W	1%	±20 ppm	PH03U390R0F	Bulk
430 OHM	3W	1%	±20 ppm	PH03U430R0F	Bulk
470 OHM	3W	1%	±20 ppm	PH03U470R0F	Bulk
510 OHM	3W	1%	±20 ppm	PH03U510R0F	Bulk
560 OHM	3W	1%	±20 ppm	PH03U560R0F	Bulk
620 OHM	3W	1%	±20 ppm	PH03U620R0F	Bulk
680 OHM	3W	1%	±20 ppm	PH03U680R0F	Bulk
750 OHM	3W	1%	±20 ppm	PH03U750R0F	Bulk
820 OHM	3W	1%	±20 ppm	PH03U820R0F	Bulk
910 OHM	3W	1%	±20 ppm	PH03U910R0F	Bulk
1 K OHM	3W	1%	±20 ppm	PH03U1K000F	Bulk
1.1 K OHM	3W	1%	±20 ppm	PH03U1K100F	Bulk
1.2 K OHM	3W	1%	±20 ppm	PH03U1K200F	Bulk
1.3 K OHM	3W	1%	±20 ppm	PH03U1K300F	Bulk
1.5 K OHM	3W	1%	±20 ppm	PH03U1K500F	Bulk
1.6 K OHM	3W	1%	±20 ppm	PH03U1K600F	Bulk
1.8 K OHM	3W	1%	±20 ppm	PH03U1K800F	Bulk
2 K OHM	3W	1%	±20 ppm	PH03U2K000F	Bulk
2.2 K OHM	3W	1%	±20 ppm	PH03U2K200F	Bulk
2.4 K OHM	3W	1%	±20 ppm	PH03U2K400F	Bulk
2.7 K OHM	3W	1%	±20 ppm	PH03U2K700F	Bulk
3 K OHM	3W	1%	±20 ppm	PH03U3K000F	Bulk
3.3 K OHM	3W	1%	±20 ppm	PH03U3K300F	Bulk
3.6 K OHM	3W	1%	±20 ppm	PH03U3K600F	Bulk
3.9 K OHM	3W	1%	±20 ppm	PH03U3K900F	Bulk
4.3 K OHM	3W	1%	±20 ppm	PH03U4K300F	Bulk
4.7 K OHM	3W	1%	±20 ppm	PH03U4K700F	Bulk

BULK = 500

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
0.68 OHM	5W	1%	± 90 ppm	PH05U0R680F	Bulk
0.75 OHM	5W	1%	± 90 ppm	PH05U0R750F	Bulk
0.82 OHM	5W	1%	± 90 ppm	PH05U0R820F	Bulk
0.91 OHM	5W	1%	± 50 ppm	PH05U0R910F	Bulk
1.0 OHM	5W	1%	± 50 ppm	PH05U1R000F	Bulk
1.1 OHM	5W	1%	± 50 ppm	PH05U1R100F	Bulk
1.2 OHM	5W	1%	± 50 ppm	PH05U1R200F	Bulk
1.3 OHM	5W	1%	± 50 ppm	PH05U1R300F	Bulk
1.5 OHM	5W	1%	± 50 ppm	PH05U1R500F	Bulk
1.6 OHM	5W	1%	± 50 ppm	PH05U1R600F	Bulk
1.8 OHM	5W	1%	± 50 ppm	PH05U1R800F	Bulk
2.0 OHM	5W	1%	± 50 ppm	PH05U2R000F	Bulk
2.2 OHM	5W	1%	± 50 ppm	PH05U2R200F	Bulk
2.4 OHM	5W	1%	± 50 ppm	PH05U2R400F	Bulk
2.7 OHM	5W	1%	± 50 ppm	PH05U2R700F	Bulk
3.0 OHM	5W	1%	± 50 ppm	PH05U3R000F	Bulk
3.3 OHM	5W	1%	± 50 ppm	PH05U3R300F	Bulk
3.6 OHM	5W	1%	± 50 ppm	PH05U3R600F	Bulk
3.9 OHM	5W	1%	± 50 ppm	PH05U3R900F	Bulk
4.3 OHM	5W	1%	± 50 ppm	PH05U4R300F	Bulk
4.7 OHM	5W	1%	± 50 ppm	PH05U4R700F	Bulk
5.1 OHM	5W	1%	± 50 ppm	PH05U5R100F	Bulk
5.6 OHM	5W	1%	± 50 ppm	PH05U5R600F	Bulk
6.2 OHM	5W	1%	± 50 ppm	PH05U6R200F	Bulk
6.8 OHM	5W	1%	± 50 ppm	PH05U6R800F	Bulk
7.5 OHM	5W	1%	± 50 ppm	PH05U7R500F	Bulk
8.2 OHM	5W	1%	± 50 ppm	PH05U8R200F	Bulk
9.1 OHM	5W	1%	± 50 ppm	PH05U9R100F	Bulk
10 OHM	5W	1%	± 50 ppm	PH05U10R00F	Bulk
11 OHM	5W	1%	± 20 ppm	PH05U11R00F	Bulk
12 OHM	5W	1%	± 20 ppm	PH05U12R00F	Bulk
13 OHM	5W	1%	± 20 ppm	PH05U13R00F	Bulk
15 OHM	5W	1%	± 20 ppm	PH05U15R00F	Bulk
16 OHM	5W	1%	± 20 ppm	PH05U16R00F	Bulk
18 OHM	5W	1%	± 20 ppm	PH05U18R00F	Bulk
20 OHM	5W	1%	± 20 ppm	PH05U20R00F	Bulk
22 OHM	5W	1%	± 20 ppm	PH05U22R00F	Bulk
24 OHM	5W	1%	± 20 ppm	PH05U24R00F	Bulk
27 OHM	5W	1%	± 20 ppm	PH05U27R00F	Bulk
30 OHM	5W	1%	± 20 ppm	PH05U30R00F	Bulk
33 OHM	5W	1%	± 20 ppm	PH05U33R00F	Bulk
36 OHM	5W	1%	± 20 ppm	PH05U36R00F	Bulk
39 OHM	5W	1%	± 20 ppm	PH05U39R00F	Bulk
43 OHM	5W	1%	± 20 ppm	PH05U43R00F	Bulk
47 OHM	5W	1%	± 20 ppm	PH05U47R00F	Bulk
51 OHM	5W	1%	± 20 ppm	PH05U51R00F	Bulk
56 OHM	5W	1%	± 20 ppm	PH05U56R00F	Bulk
62 OHM	5W	1%	± 20 ppm	PH05U62R00F	Bulk
68 OHM	5W	1%	± 20 ppm	PH05U68R00F	Bulk
75 OHM	5W	1%	± 20 ppm	PH05U75R00F	Bulk

BULK = 500

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

Wirewound Axial Lead Resistor

Series PH05

PHILIPS

Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
82 OHM	5W	1%	±20 ppm	PH05U82R00F	Bulk
91 OHM	5W	1%	±20 ppm	PH05U91R00F	Bulk
100 OHM	5W	1%	±20 ppm	PH05U100R0F	Bulk
110 OHM	5W	1%	±20 ppm	PH05U110R0F	Bulk
120 OHM	5W	1%	±20 ppm	PH05U120R0F	Bulk
130 OHM	5W	1%	±20 ppm	PH05U130R0F	Bulk
150 OHM	5W	1%	±20 ppm	PH05U150R0F	Bulk
160 OHM	5W	1%	±20 ppm	PH05U160R0F	Bulk
180 OHM	5W	1%	±20 ppm	PH05U180R0F	Bulk
200 OHM	5W	1%	±20 ppm	PH05U200R0F	Bulk
220 OHM	5W	1%	±20 ppm	PH05U220R0F	Bulk
240 OHM	5W	1%	±20 ppm	PH05U240R0F	Bulk
270 OHM	5W	1%	±20 ppm	PH05U270R0F	Bulk
300 OHM	5W	1%	±20 ppm	PH05U300R0F	Bulk
330 OHM	5W	1%	±20 ppm	PH05U330R0F	Bulk
360 OHM	5W	1%	±20 ppm	PH05U360R0F	Bulk
390 OHM	5W	1%	±20 ppm	PH05U390R0F	Bulk
430 OHM	5W	1%	±20 ppm	PH05U430R0F	Bulk
470 OHM	5W	1%	±20 ppm	PH05U470R0F	Bulk
510 OHM	5W	1%	±20 ppm	PH05U510R0F	Bulk
560 OHM	5W	1%	±20 ppm	PH05U560R0F	Bulk
620 OHM	5W	1%	±20 ppm	PH05U620R0F	Bulk
680 OHM	5W	1%	±20 ppm	PH05U680R0F	Bulk
750 OHM	5W	1%	±20 ppm	PH05U750R0F	Bulk
820 OHM	5W	1%	±20 ppm	PH05U820R0F	Bulk
910 OHM	5W	1%	±20 ppm	PH05U910R0F	Bulk
1 K OHM	5W	1%	±20 ppm	PH05U1K000F	Bulk
1.1 K OHM	5W	1%	±20 ppm	PH05U1K100F	Bulk
1.2 K OHM	5W	1%	±20 ppm	PH05U1K200F	Bulk
1.3 K OHM	5W	1%	±20 ppm	PH05U1K300F	Bulk
1.5 K OHM	5W	1%	±20 ppm	PH05U1K500F	Bulk
1.6 K OHM	5W	1%	±20 ppm	PH05U1K600F	Bulk
1.8 K OHM	5W	1%	±20 ppm	PH05U1K800F	Bulk
2 K OHM	5W	1%	±20 ppm	PH05U2K000F	Bulk
2.2 K OHM	5W	1%	±20 ppm	PH05U2K200F	Bulk
2.4 K OHM	5W	1%	±20 ppm	PH05U2K400F	Bulk
2.7 K OHM	5W	1%	±20 ppm	PH05U2K700F	Bulk
3 K OHM	5W	1%	±20 ppm	PH05U3K000F	Bulk
3.3 K OHM	5W	1%	±20 ppm	PH05U3K300F	Bulk
3.6 K OHM	5W	1%	±20 ppm	PH05U3K600F	Bulk
3.9 K OHM	5W	1%	±20 ppm	PH05U3K900F	Bulk
4.3 K OHM	5W	1%	±20 ppm	PH05U4K300F	Bulk
4.7 K OHM	5W	1%	±20 ppm	PH05U4K700F	Bulk
5.1 K OHM	5W	1%	±20 ppm	PH05U5K100F	Bulk
5.6 K OHM	5W	1%	±20 ppm	PH05U5K600F	Bulk
6.2 K OHM	5W	1%	±20 ppm	PH05U6K200F	Bulk
6.8 K OHM	5W	1%	±20 ppm	PH05U6K800F	Bulk
7.5 K OHM	5W	1%	±20 ppm	PH05U7K500F	Bulk
8.2 K OHM	5W	1%	±20 ppm	PH05U8K200F	Bulk
9.1 K OHM	5W	1%	±20 ppm	PH05U9K100F	Bulk

BULK = 500

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

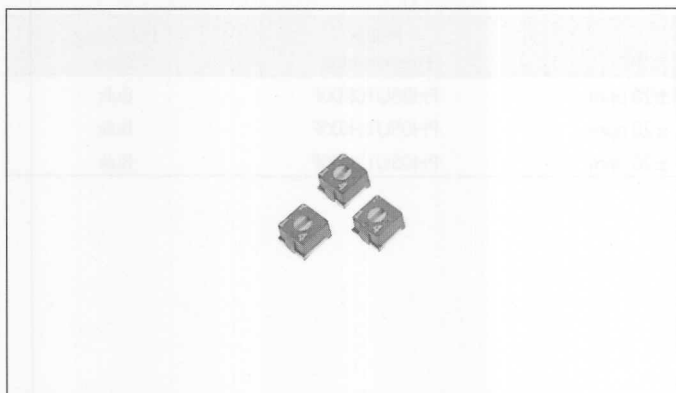
Value	Wattage	Tolerance	TC	Philips Part Number	Packaging Type
10 K OHM	5W	1%	±20 ppm	PH05U10K00F	Bulk
11 K OHM	5W	1%	±20 ppm	PH05U11K00F	Bulk
12 K OHM	5W	1%	±20 ppm	PH05U12K00F	Bulk

BULK = 500

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA08-A.

3mm Surface Mount Trimmer Single Turn Model ST-3

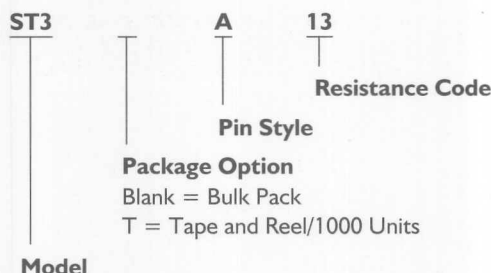
PHILIPS



Features

- Sealed to Allow for Automatic Processing
- Precious Metal Alloy Contact
- Chip Style Design for Compact Size
- Tape and Reel and Bulk Packaging

Part Number



Marking

Units Marked With Resistance Mark and 1 Digit Date Code

Standard Resistance Values and Codes					
Ω	CODE	MARK	Ω	CODE	MARK
10	100	11	10 K	103	14
20	200	21	20 K	203	24
50	500	51	50 K	503	54
100	101	12	100 K	104	15
200	201	22	200 K	204	25
500	501	52	500 K	504	55
1 K	102	13	1 M	105	16
2 K	202	23			
5 K	502	53			

Specifications

Electrical

Resistance Range	: 10 Ohms to 1 Meg. Ohms
Resistance Tolerance	: $\pm 20\%$ Standard
Temp. Coeff. Of Resistance	: 10 Ohms to 50 Ohms ± 250 ppm/ $^{\circ}$ C 100 Ohms to 1 Meg. Ohm ± 100 ppm/ $^{\circ}$ C.
Power Rating	: 0.125 Watt at 70 $^{\circ}$ C

Surface Mount Trimming Potentiometer 3 mm Square Single Turn, Cermet Model ST-3

Electrical (continued)

Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 210 $^{\circ}$ Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55 $^{\circ}$ C to 125 $^{\circ}$ C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC.
Dielectric Strength	: 500 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 240 $^{\circ}$ Nominal
Operating Torque	: 50 gram-cm max. (.69 Oz-in.)
Stop Strength, Min.	: 200 gram-cm min. (2.8 Oz-in.)
Terminal Strength, Min.	: Not Applicable
Rotational Life	: 100 cycles (Δ R/R $\leq 2 \Omega + 3\%$)

Environmental (MIL-R-22097)

Thermal Shock:

(-65 $^{\circ}$ C to 125 $^{\circ}$ C)	Δ R/R $\leq 2.00\%$ Δ SS $\leq 1.00\%$
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Humidity:

(80 - 98% RH, 240 Hrs.)	Δ R/R $\leq 2.00\%$
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Mech. Shock:

(100 g)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Vibration:

(20 g, 10 to 2000 Hz.)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Low Temp. Operation:

(-55 $^{\circ}$ C, 2 Hrs.)	Δ R/R $\leq 2.00\%$ Δ SS $\leq 2.00\%$
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High Temp. Exposure:

(125 $^{\circ}$ C, 250 Hrs.)	Δ R/R $\leq 3.00\%$ Δ SS $\leq 2.00\%$
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Load Life:

(70 $^{\circ}$ C, 0.125 W, 1000 Hrs.)	Δ R/R $\leq 3.00\%$ Δ SS $\leq 1.00\%$
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Soldering Heat:

(215 $^{\circ}$ C, 35 sec. or 260 $^{\circ}$ C, 10 sec.)	Δ R/R $\leq 1.00\%$
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Immersion:

Fluorocarbon Liquid, 85 $^{\circ}$ C, 1 min. No Leaks
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FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Philips Part Number	Value
ST3A11	10 OHM
ST3A21	20 OHM
ST3A51	50 OHM
ST3A12	100OHM
ST3A22	200 OHM
ST3A52	500 OHM
ST3A13	1K OHM
ST3A23	2K OHM
ST3A53	5K OHM
ST3A14	10K OHM
ST3A24	20K OHM
ST3A54	50K OHM
ST3A15	100K OHM
ST3A25	200K OHM
ST3A55	500K OHM
ST3A16	1 MEG OHM

Bulk Pack MPQ 100.

Philips Part Number	Value
ST3TA11	10 OHM
ST3TA21	20 OHM
ST3TA51	50 OHM
ST3TA12	100OHM
ST3TA22	200 OHM
ST3TA52	500 OHM
ST3TA13	1K OHM
ST3TA23	2K OHM
ST3TA53	5K OHM
ST3TA14	10K OHM
ST3TA24	20K OHM
ST3TA54	50K OHM
ST3TA15	100K OHM
ST3TA25	200K OHM
ST3TA55	500K OHM
ST3TA16	1 MEG OHM

Tape Reel MPQ 1000.

4mm Surface Mount Trimmer Single Turn Model ST-4

PHILIPS

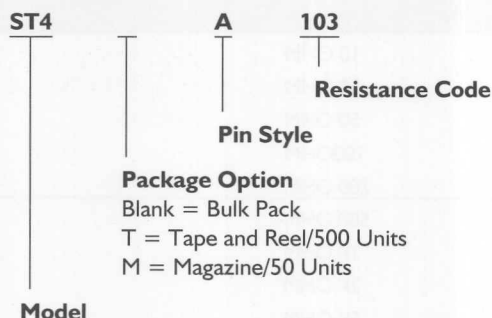


Surface Mount Trimming Potentiometer 4 mm Square Single Turn, Cermet Model ST-4

Features

- Sealed to Allow for Automatic Processing
- Vertical and Horizontal Adjustment Styles
- Gull Wing, J Lead and Thru Hole Pin Styles
- Precious Metal Alloy Contact
- Tape and Reel, Magazine and Bulk Packaging

Part Number



Marking

Units Marked With Resistance Code, and 2 Digit Date Code

Standard Resistance Values and Codes			
Ω	Code	Ω	Code
10	100	10 K	103
20	200	20 K	203
50	500	50 K	503
100	101	100 K	104
200	201	200 K	204
500	501	500 K	504
1 K	102	1 M	105
2 K	202	2 M	205
5 K	502		

Specifications

Electrical

Resistance Range	: 10 Ohms to 2 Meg. Ohms
Resistance Tolerance	: $\pm 20\%$ Standard
Temp. Coeff. Of Resistance	: 100 Ohms to 2 Meg. ± 100 ppm/ $^{\circ}$ C others ± 250 ppm/ $^{\circ}$ C.

Electrical (continued)

Power Rating	: 1/4 Watt at 70 $^{\circ}$ C
Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 210 $^{\circ}$ Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55 $^{\circ}$ C to 125 $^{\circ}$ C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 500 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 240 $^{\circ}$ Nominal
Operating Torque	: 100 gram-cm max. (1.39 Oz-in.)
Stop Strength, Min.	: 300 gram-cm min. (4.17 Oz-in.)
Rotational Life	: 100 cycles ($\Delta R/R \leq 2\% + 3\%$)

Environmental (MIL-R-22097)

Thermal Shock:

(-65 $^{\circ}$ C to 125 $^{\circ}$ C)	$\Delta R/R \leq 2.00\%$ $\Delta SS \leq 1.00\%$
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Humidity:

(80 - 98% RH, 240 Hrs.)	$\Delta R/R \leq 2.00\%$
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Mech. Shock:

(100 g, 6 axes, 3 times)	$\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$
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Vibration:

(20 g, 10 to 2000 Hz.)	$\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$
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Low Temp. Operation:

(-55 $^{\circ}$ C, 2 Hrs.)	$\Delta R/R \leq 2.00\%$ $\Delta SS \leq 2.00\%$
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High Temp. Exposure:

(125 $^{\circ}$ C, 250 Hrs.)	$\Delta R/R \leq 3.00\%$ $\Delta SS \leq 2.00\%$
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Load Life:

(70 $^{\circ}$ C, 0.25 W, 1000 Hrs.)	$\Delta R/R \leq 3.00\%$ $\Delta SS \leq 1.00\%$
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Soldering Heat:

(260 $^{\circ}$ C, 10 Sec. or 215 $^{\circ}$ C, 3 minutes)	$\Delta R/R \leq 1.00\%$
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Immersion:

Fluorocarbon Liquid, 85 $^{\circ}$ C, 1 min.	No Leaks
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FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Philips Part Number	Value
ST4A100	10 OHM
ST4A200	20 OHM
ST4A500	50 OHM
ST4A101	100 OHM
ST4A201	200 OHM
ST4A501	500 OHM
ST4A102	1K OHM
ST4A202	2K OHM
ST4A502	5K OHM
ST4A103	10K OHM
ST4A203	20K OHM
ST4A503	50K OHM
ST4A104	100K OHM
ST4A204	200K OHM
ST4A504	500K OHM
ST4A105	1 MEG OHM
ST4A205	2 MEG OHM

All parts listed are J lead top adjust.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
ST4TA100	10 OHM
ST4TA200	20 OHM
ST4TA500	50 OHM
ST4TA101	100 OHM
ST4TA201	200 OHM
ST4TA501	500 OHM
ST4TA102	1K OHM
ST4TA202	2K OHM
ST4TA502	5K OHM
ST4TA103	10K OHM
ST4TA203	20K OHM
ST4TA503	50K OHM
ST4TA104	100K OHM
ST4TA204	200K OHM
ST4TA504	500K OHM
ST4TA105	1 MEG OHM
ST4TA205	2 MEG OHM

All parts listed are J lead top adjust.

All parts listed are Tape and Reel MPQ 500.

4mm Surface Mount Trimmer Single Turn Model ST-4

PHILIPS

Philips Part Number	Value
ST4B100	10 OHM
ST4B200	20 OHM
ST4B500	50 OHM
ST4B101	100 OHM
ST4B201	200 OHM
ST4B501	500 OHM
ST4B102	1K OHM
ST4B202	2K OHM
ST4B502	5K OHM
ST4B103	10K OHM
ST4B203	20K OHM
ST4B503	50K OHM
ST4B104	100K OHM
ST4B204	200K OHM
ST4B504	500K OHM
ST4B105	1 MEG OHM
ST4B205	2 MEG OHM

All parts listed are gull wing top adjust.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
ST4TB100	10 OHM
ST4TB200	20 OHM
ST4TB500	50 OHM
ST4TB101	100 OHM
ST4TB201	200 OHM
ST4TB501	500 OHM
ST4TB102	1K OHM
ST4TB202	2K OHM
ST4TB502	5K OHM
ST4TB103	10K OHM
ST4TB203	20K OHM
ST4TB503	50K OHM
ST4TB104	100K OHM
ST4TB204	200K OHM
ST4TB504	500K OHM
ST4TB105	1 MEG OHM
ST4TB205	2 MEG OHM

All parts listed are gull wing top adjust.

All parts listed are tape reel MPQ 500.

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Philips Part Number	Value
ST4G100	10 OHM
ST4G200	20 OHM
ST4G500	50 OHM
ST4G101	100 OHM
ST4G201	200 OHM
ST4G501	500 OHM
ST4G102	1K OHM
ST4G202	2K OHM
ST4G502	5K OHM
ST4G103	10K OHM
ST4G203	20K OHM
ST4G503	50K OHM
ST4G104	100K OHM
ST4G204	200K OHM
ST4G504	500K OHM
ST4G105	1 MEG OHM
ST4G205	2 MEG OHM

All parts listed are thru J lead side adjust.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
ST4TG100	10 OHM
ST4TG200	20 OHM
ST4TG500	50 OHM
ST4TG101	100 OHM
ST4TG201	200 OHM
ST4TG501	500 OHM
ST4TG102	1K OHM
ST4TG202	2K OHM
ST4TG502	5K OHM
ST4TG103	10K OHM
ST4TG203	20K OHM
ST4TG503	50K OHM
ST4TG104	100K OHM
ST4TG204	200K OHM
ST4TG504	500K OHM
ST4TG105	1 MEG OHM
ST4TG205	2 MEG OHM

All parts listed are thru J lead side adjust.

All parts listed are Tape and Reel MPQ 500.

4mm Leaded Trimmer Single Turn

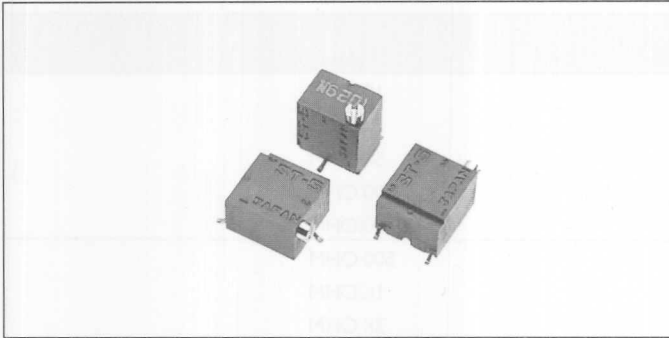
Model ST-4

PHILIPS

Philips Part Number	Value
ST4C100	10 OHM
ST4C200	20 OHM
ST4C500	50 OHM
ST4C101	100 OHM
ST4C201	200 OHM
ST4C501	500 OHM
ST4C102	1K OHM
ST4C202	2K OHM
ST4C502	5K OHM
ST4C103	10K OHM
ST4C203	20K OHM
ST4C503	50K OHM
ST4C104	100K OHM
ST4C204	200K OHM
ST4C504	500K OHM
ST4C105	1 MEG OHM
ST4C205	2 MEG OHM

All parts listed are thru hole top adjust.

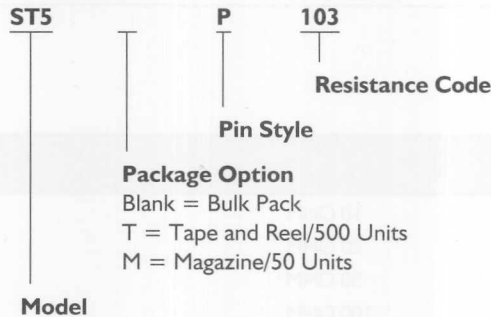
All parts listed are bulk MPQ 100.



Features

- Sealed to Allow for Automatic Processing
- Vertical and Horizontal Mount
- Precious Metal Alloy Contact
- Tape and Reel, Magazine and Bulk Packaging

Part Number



Marking

Units Marked With Resistance Code, 2 Digit Date Code, Model Designation and Pin Numbers

Standard Resistance Values and Codes			
Ω	Code	Ω	Code
10	100	10 K	103
20	200	20 K	203
50	500	50 K	503
100	101	100 K	104
200	201	200 K	204
500	501	500 K	504
1 K	102	1 M	105
2 K	202	2 M	205
5 K	502		

Specifications

Electrical

Resistance Range	: 10 Ohms to 2 Meg. Ohms
Resistance Tolerance	: $\pm 10\%$ Standard
Temp. Coeff. Of Resistance	: 100 Ohms to 2 Meg. $\pm 100 \text{ ppm}/^\circ\text{C}$ others $\pm 250 \text{ ppm}/^\circ\text{C}$.
Power Rating	: 1/4 Watt at 85°C

Electrical (continued)

Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 11 Turns, Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55°C to $+125^\circ\text{C}$
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 600 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 14 Turns Nominal
Operating Torque	: 200 gram-cm (2.78 Oz-in.) max.
Stop Strength, Min.	: Not Applicable, Wiper Idles
Rotational Life	: 200 cycles 10 Ω To 200 Ω , $\Delta R/R \leq \pm (0.5\Omega + 3\%)$ 500 Ω To 2 M Ω , $\Delta R/R \leq \pm (0.5\Omega + 2\%)$

Environmental (MIL-R-22097)

Thermal Shock:

(-65°C to 125°C)	$\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$
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Humidity:

(80 - 98% RH, 240 Hrs.)	$\Delta R/R \leq 1.00\%$
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Mech. Shock:

(100 g)	$\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$
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Vibration:

(20 g, 10 to 2000 Hz.)	$\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$
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Low Temp. Operation:

(-55°C , 2 Hrs.)	$\Delta R/R \leq 2.00\%$ $\Delta SS \leq 2.00\%$
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High Temp. Exposure:

(125°C , 250 Hrs.)	$\Delta R/R \leq 2.00\%$ $\Delta SS \leq 2.00\%$
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Load Life:

(85°C , 0.25 W, 1000 Hrs.)	$\Delta R/R \leq 2.00\%$ $\Delta SS \leq 1.00\%$
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Soldering Heat:

(215°C , 3 Min. or 260°C , 10 Sec.)	$\Delta R/R \leq 1.00\%$
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Immersion:	Fluorocarbon Liquid, 85°C , 1 min. No Leaks
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6mm Surface Mount Trimmer Multiturn Model ST-5

PHILIPS

Philips Part Number	Value
ST5W100	10 OHM
ST5W200	20 OHM
ST5W500	50 OHM
ST5W101	100 OHM
ST5W201	200 OHM
ST5W501	500 OHM
ST5W102	1K OHM
ST5W202	2K OHM
ST5W502	5K OHM
ST5W103	10K OHM
ST5W203	20K OHM
ST5W503	50K OHM
ST5W104	100K OHM
ST5W204	200K OHM
ST5W504	500K OHM
ST5W105	1 MEG OHM
ST5W205	2 MEG OHM

All parts listed are gull wing pin style w/top adjust.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
ST5TW100	10 OHM
ST5TW200	20 OHM
ST5TW500	50 OHM
ST5TW101	100 OHM
ST5TW201	200 OHM
ST5TW501	500 OHM
ST5TW102	1K OHM
ST5TW202	2K OHM
ST5TW502	5K OHM
ST5TW103	10K OHM
ST5TW203	20K OHM
ST5TW503	50K OHM
ST5TW104	100K OHM
ST5TW204	200K OHM
ST5TW504	500K OHM
ST5TW105	1 MEG OHM
ST5TW205	2 MEG OHM

All parts listed are gull wing pin style W top adjust.

All parts listed are tape & reel MPQ 500.

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Philips Part Number	Value
ST5X100	10 OHM
ST5X200	20 OHM
ST5X500	50 OHM
ST5X101	100 OHM
ST5X201	200 OHM
ST5X501	500 OHM
ST5X102	1K OHM
ST5X202	2K OHM
ST5X502	5K OHM
ST5X103	10K OHM
ST5X203	20K OHM
ST5X503	50K OHM
ST5X104	100K OHM
ST5X204	200K OHM
ST5X504	500K OHM
ST5X105	1 MEG OHM
ST5X205	2 MEG OHM

All parts listed are gull wing pin style X side adjust.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
ST5TX100	10 OHM
ST5TX200	20 OHM
ST5TX500	50 OHM
ST5TX101	100 OHM
ST5TX201	200 OHM
ST5TX501	500 OHM
ST5TX102	1K OHM
ST5TX202	2K OHM
ST5TX502	5K OHM
ST5TX103	10K OHM
ST5TX203	20K OHM
ST5TX503	50K OHM
ST5TX104	100K OHM
ST5TX204	200K OHM
ST5TX504	500K OHM
ST5TX105	1 MEG OHM
ST5TX205	2 MEG OHM

All parts listed are gull wing pin style X side adjust.

All parts listed are tape & reel MPQ 500.

6mm Surface Mount Trimmer Multiturn Model ST-5

PHILIPS

Philips Part Number	Value
ST5P100	10 OHM
ST5P200	20 OHM
ST5P500	50 OHM
ST5P101	100 OHM
ST5P201	200 OHM
ST5P501	500 OHM
ST5P102	1K OHM
ST5P202	2K OHM
ST5P502	5K OHM
ST5P103	10K OHM
ST5P203	20K OHM
ST5P503	50K OHM
ST5P104	100K OHM
ST5P204	200K OHM
ST5P504	500K OHM
ST5P105	1 MEG OHM
ST5P205	2 MEG OHM

All parts listed are gull wing pin style P side adjust.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
ST5TP100	10 OHM
ST5TP200	20 OHM
ST5TP500	50 OHM
ST5TP101	100 OHM
ST5TP201	200 OHM
ST5TP501	500 OHM
ST5TP102	1K OHM
ST5TP202	2K OHM
ST5TP502	5K OHM
ST5TP103	10K OHM
ST5TP203	20K OHM
ST5TP503	50K OHM
ST5TP104	100K OHM
ST5TP204	200K OHM
ST5TP504	500K OHM
ST5TP105	1 MEG OHM
ST5TP205	2 MEG OHM

All parts listed are gull wing pin style P side adjust.

All parts listed are tape & reel MPQ 500.

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Philips Part Number	Value
ST5R100	10 OHM
ST5R200	20 OHM
ST5R500	50 OHM
ST5R101	100 OHM
ST5R201	200 OHM
ST5R501	500 OHM
ST5R102	1K OHM
ST5R202	2K OHM
ST5R502	5K OHM
ST5R103	10K OHM
ST5R203	20K OHM
ST5R503	50K OHM
ST5R104	100K OHM
ST5R204	200K OHM
ST5R504	500K OHM
ST5R105	1 MEG OHM
ST5R205	2 MEG OHM

All parts listed are gull wing pin style R side adjust.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
ST5TR100	10 OHM
ST5TR200	20 OHM
ST5TR500	50 OHM
ST5TR101	100 OHM
ST5TR201	200 OHM
ST5TR501	500 OHM
ST5TR102	1K OHM
ST5TR202	2K OHM
ST5TR502	5K OHM
ST5TR103	10K OHM
ST5TR203	20K OHM
ST5TR503	50K OHM
ST5TR104	100K OHM
ST5TR204	200K OHM
ST5TR504	500K OHM
ST5TR105	1 MEG OHM
ST5TR205	2 MEG OHM

All parts listed are gull wing pin style R side adjust.

All parts listed are tape & reel MPQ 500.

7mm Surface Mount Trimmer 3-Turn Model ST-7

PHILIPS

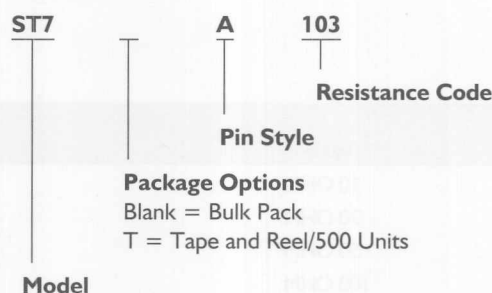


Surface Mount Trimming Potentiometer 7 mm Square Multiturn, Cermet Model ST-7

Features

- Sealed to Allow for Automatic Processing
- Precious Metal Alloy Contact
- Tape and Reel and Bulk Packaging

Part Number



Marking

Units Marked With Resistance Code, 2 Digit Date Code and Model Designation

Standard Resistance Values and Codes			
Ω	Code	Ω	Code
50	500	10 K	103
100	101	20 K	203
200	201	50 K	503
500	501	100 K	104
1 K	102	200 K	204
2 K	202	500 K	504
5 K	502	1 M	105

Specifications

Electrical

Resistance Range	: 50 Ohms to 1 Meg. Ohms
Resistance Tolerance	: $\pm 20\%$ Standard
Temp. Coeff. Of Resistance	: 100 Ohms to 1 Meg. $\pm 100 \text{ ppm}/^\circ\text{C}$ $50\Omega \pm 250 \text{ ppm}/^\circ\text{C}$
Power Rating	: 1/4 Watt at 70°C

Electrical (continued)

Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 2.5 Turns Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 3 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55°C to 125°C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 500 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 3 Turns Nominal
Operating Torque	: 50 gram-cm (0.70 Oz-in.) max.
Stop Strength, Min.	: Not Applicable, Wiper Idles
Rotational Life	: 100 cycles ($\Delta R/R \leq 2.0\% + 3\%$)

Environmental (MIL-R-22097)

Thermal Shock:

(-65°C to 125°C) $\Delta R/R \leq 2.00\%$ $\Delta SS \leq 1.00\%$

Humidity:

(80 - 98% RH, 240 Hrs.) $\Delta R/R \leq 2.00\%$

Mech. Shock:

(100 g) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Vibration:

(20 g, 10 to 2000 Hz.) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Low Temp. Operation:

(-55°C , 2 Hrs.) $\Delta R/R \leq 2.00\%$ $\Delta SS \leq 2.00\%$

High Temp. Exposure:

(125°C , 250 Hrs.) $\Delta R/R \leq 3.00\%$ $\Delta SS \leq 2.00\%$

Load Life:

(70°C , 0.25 W, 1000 Hrs.) $\Delta R/R \leq 3.00\%$ $\Delta SS \leq 1.00\%$

Soldering Heat:

(215°C , 35 Sec. or 260°C , 10 Sec.)

Immersion:

$\Delta R/R \leq 1.00\%$
Fluorocarbon Liquid, 85°C , 1 min.
No Leaks

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Value	Philips Part Number	PIN
50 OHM	ST7A500	A
100 OHM	ST7A101	A
200 OHM	ST7A201	A
500 OHM	ST7A501	A
1K OHM	ST7A102	A
2K OHM	ST7A202	A
5K OHM	ST7A502	A
10K OHM	ST7A103	A
20K OHM	ST7A203	A
25K OHM	ST7A253	A
50K OHM	ST7A503	A
100K OHM	ST7A104	A
200K OHM	ST7A204	A
250K OHM	ST7A254	A
500K OHM	ST7A504	A
1M OHM	ST7A105	A
50 OHM	ST7TA500	A
100 OHM	ST7TA101	A
200 OHM	ST7TA201	A
500 OHM	ST7TA501	A
1K OHM	ST7TA102	A
2K OHM	ST7TA202	A
5K OHM	ST7TA502	A
10K OHM	ST7TA103	A
20K OHM	ST7TA203	A
25K OHM	ST7TA253	A
50K OHM	ST7TA503	A
100K OHM	ST7TA104	A
200K OHM	ST7TA204	A
250K OHM	ST7TA254	A
500K OHM	ST7TA504	A
1M OHM	ST7TA105	A

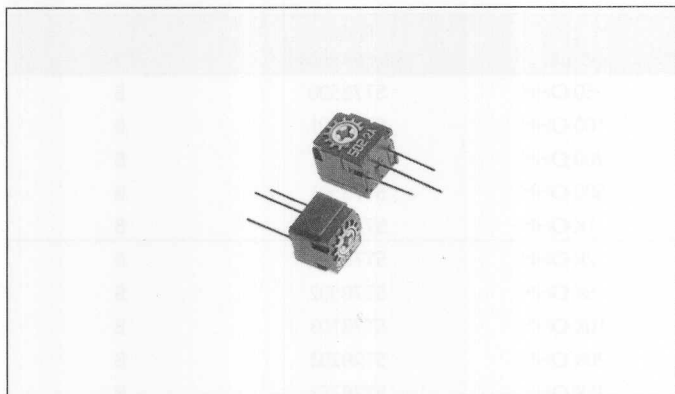
A = J Lead, top adjust
All parts listed are bulk.

Value	Philips Part Number	PIN
50 OHM	ST7B500	B
100 OHM	ST7B101	B
200 OHM	ST7B201	B
500 OHM	ST7B501	B
1K OHM	ST7B102	B
2K OHM	ST7B202	B
5K OHM	ST7B502	B
10K OHM	ST7B103	B
20K OHM	ST7B203	B
25K OHM	ST7B253	B
50K OHM	ST7B503	B
100K OHM	ST7B104	B
200K OHM	ST7B204	B
250K OHM	ST7B254	B
500K OHM	ST7B504	B
1M OHM	ST7B105	B
50 OHM	ST7TB500	B
100 OHM	ST7TB101	B
200 OHM	ST7TB201	B
500 OHM	ST7TB501	B
1K OHM	ST7TB102	B
2K OHM	ST7TB202	B
5K OHM	ST7TB502	B
10K OHM	ST7TB103	B
20K OHM	ST7TB203	B
25K OHM	ST7TB253	B
50K OHM	ST7TB503	B
100K OHM	ST7TB104	B
200K OHM	ST7TB204	B
250K OHM	ST7TB254	B
500K OHM	ST7TB504	B
1M OHM	ST7TB105	B

B = Gull wing, top adjust
All parts listed are bulk.

6mm Leaded Trimmer Single Turn Model CT-6

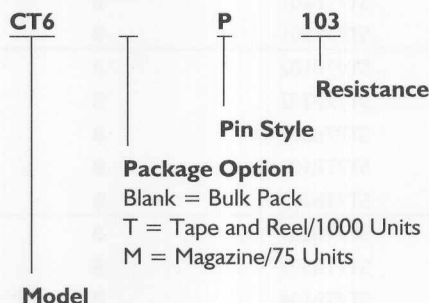
PHILIPS



Features

- Sealed to Allow for Automatic Processing
- Precious Metal Alloy Contact
- Highly Automated Assembly
- Bulk or Tape and Reel Packaging

Part Number



Marking

Units Marked With Resistance Code and 2 Digit Date Code

Standard Resistance Values and Codes			
Ω	Code	Ω	Code
10	100	20 K	203
20	200	25 K	253
50	500	50 K	503
100	101	100 K	104
200	201	200 K	204
500	501	250 K	254
1 K	102	500 K	504
2 K	202	1 M	105
5 K	502	2 M	205
10 K	103		

Specifications

Electrical

Resistance Range	: 10 Ohms to 5 Meg. Ohms
Resistance Tolerance	: $\pm 10\%$ Standard
Temp. Coeff. Of Resistance	: 50 Ohms to 2 Meg. ± 100 ppm/ $^{\circ}\text{C}$ others ± 250 ppm/ $^{\circ}\text{C}$.
Power Rating	: 1/2 Watt at 70°C

Single Turn Trimming Potentiometer 6 mm Square, Cermet Model CT-6

Electrical (continued)

Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 220° Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55°C to 125°C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 900 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 260° Nominal
Operating Torque	: 20 to 200 gram-cm (0.27 to 2.78 Oz-in.)
Stop Strength, Min.	: 500 gram-cm min. (6.94 Oz-in.)
Rotational Life	: 200 cycles ($\Delta R/R \leq 2$ Ohms + 3%)
Solderability	: Mil-Std-202, Method 208
Terminal Strength, Min.	: 1 Kg

Environmental (MIL-R-22097)

Thermal Shock:

(-65°C to 125°C) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Humidity:

(80 - 98% RH, 240 Hrs.) $\Delta R/R \leq 2.00\%$

Mech. Shock:

(100 g) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Vibration:

(20 g, 10 to 2000 Hz.) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Low Temp. Operation:

(-55°C , 2 Hrs.) $\Delta R/R \leq 2.00\%$ $\Delta SS \leq 2.00\%$

High Temp. Exposure:

(125°C , 250 Hrs.) $\Delta R/R \leq 3.00\%$ $\Delta SS \leq 2.00\%$

Load Life:

(70°C , 0.50 W, 1000 Hrs.) $\Delta R/R \leq 3.00\%$ $\Delta SS \leq 1.00\%$

Soldering Heat:

(350°C , 3 Sec.) $\Delta R/R \leq 1.00\%$

Immersion:

Fluorocarbon Liquid, 85°C , 1 min.
No Leaks

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Value	Philips Part Number	PIN
10 OHM	CT6P100	P
20 OHM	CT6P200	P
50 OHM	CT6P500	P
100 OHM	CT6P101	P
200 OHM	CT6P201	P
500 OHM	CT6P501	P
1K OHM	CT6P102	P
2K OHM	CT6P202	P
5K OHM	CT6P502	P
10K OHM	CT6P103	P
20K OHM	CT6P203	P
25K OHM	CT6P253	P
50K OHM	CT6P503	P
100K OHM	CT6P104	P
200K OHM	CT6P204	P
250K OHM	CT6P254	P
500K OHM	CT6P504	P
1M OHM	CT6P105	P
2M OHM	CT6P205	P
10 OHM	CT6W100	W
20 OHM	CT6W200	W
50 OHM	CT6W500	W
100 OHM	CT6W101	W
200 OHM	CT6W201	W
500 OHM	CT6W501	W
1K OHM	CT6W102	W
2K OHM	CT6W202	W
5K OHM	CT6W502	W
10K OHM	CT6W103	W
20K OHM	CT6W203	W
25K OHM	CT6W253	W
50K OHM	CT6W503	W
100K OHM	CT6W104	W
200K OHM	CT6W204	W
250K OHM	CT6W254	W
500K OHM	CT6W504	W
1M OHM	CT6W105	W
2M OHM	CT6W205	W
10 OHM	CT6R100	R
20 OHM	CT6R200	R
50 OHM	CT6R500	R
100 OHM	CT6R101	R
200 OHM	CT6R201	R
500 OHM	CT6R501	R
1K OHM	CT6R102	R
2K OHM	CT6R202	R
5K OHM	CT6R502	R
10K OHM	CT6R103	R
20K OHM	CT6R203	R
25K OHM	CT6R253	R

Value	Philips Part Number	PIN
50K OHM	CT6R503	R
100K OHM	CT6R104	R
200K OHM	CT6R204	R
250K OHM	CT6R254	R
500K OHM	CT6R504	R
1M OHM	CT6R105	R
2M OHM	CT6R205	R
10 OHM	CT6V100	V
20 OHM	CT6V200	V
50 OHM	CT6V500	V
100 OHM	CT6V101	V
200 OHM	CT6V201	V
500 OHM	CT6V501	V
1K OHM	CT6V102	V
2K OHM	CT6V202	V
5K OHM	CT6V502	V
10K OHM	CT6V103	V
20K OHM	CT6V203	V
25K OHM	CT6V253	V
50K OHM	CT6V503	V
100K OHM	CT6V104	V
200K OHM	CT6V204	V
250K OHM	CT6V254	V
500K OHM	CT6V504	V
1M OHM	CT6V105	V
2M OHM	CT6V205	V
10 OHM	CT6S100	S
20 OHM	CT6S200	S
50 OHM	CT6S500	S
100 OHM	CT6S101	S
200 OHM	CT6S201	S
500 OHM	CT6S501	S
1K OHM	CT6S102	S
2K OHM	CT6S202	S
5K OHM	CT6S502	S
10K OHM	CT6S103	S
20K OHM	CT6S203	S
25K OHM	CT6S253	S
50K OHM	CT6S503	S
100K OHM	CT6S104	S
200K OHM	CT6S204	S
250K OHM	CT6S254	S
500K OHM	CT6S504	S
1M OHM	CT6S105	S
2M OHM	CT6S205	S
10 OHM	CT6H100	H
20 OHM	CT6H200	H
50 OHM	CT6H500	H
100 OHM	CT6H101	H
200 OHM	CT6H201	H

All parts listed are bulk.

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

6mm Leaded Trimmer Single Turn Model CT-6

PHILIPS

Value	Philips Part Number	PIN
500 OHM	CT6H501	H
1K OHM	CT6H102	H
2K OHM	CT6H202	H
5K OHM	CT6H502	H
10K OHM	CT6H103	H
20K OHM	CT6H203	H
25K OHM	CT6H253	H
50K OHM	CT6H503	H
100K OHM	CT6H104	H
200K OHM	CT6H204	H
250K OHM	CT6H254	H
500K OHM	CT6H504	H
1M OHM	CT6H105	H
2M OHM	CT6H205	H
10 OHM	CT6X100	X
20 OHM	CT6X200	X
50 OHM	CT6X500	X
100 OHM	CT6X101	X
200 OHM	CT6X201	X
500 OHM	CT6X501	X
1K OHM	CT6X102	X
2K OHM	CT6X202	X
5K OHM	CT6X502	X
10K OHM	CT6X103	X
20K OHM	CT6X203	X
25K OHM	CT6X253	X
50K OHM	CT6X503	X
100K OHM	CT6X104	X
200K OHM	CT6X204	X
250K OHM	CT6X254	X
500K OHM	CT6X504	X
1M OHM	CT6X105	X
2M OHM	CT6X205	X
10 OHM	CT6F100	F
20 OHM	CT6F200	F
50 OHM	CT6F500	F
100 OHM	CT6F101	F
200 OHM	CT6F201	F
500 OHM	CT6F501	F
1K OHM	CT6F102	F
2K OHM	CT6F202	F
5K OHM	CT6F502	F
10K OHM	CT6F103	F
20K OHM	CT6F203	F
25K OHM	CT6F253	F
50K OHM	CT6F503	F
100K OHM	CT6F104	F
200K OHM	CT6F204	F
250K OHM	CT6F254	F
500K OHM	CT6F504	F

Value	Philips Part Number	PIN
1M OHM	CT6F105	F
2M OHM	CT6F205	F
10 OHM	CT6N100	N
20 OHM	CT6N200	N
50 OHM	CT6N500	N
100 OHM	CT6N101	N
200 OHM	CT6N201	N
500 OHM	CT6N501	N
1K OHM	CT6N102	N
2K OHM	CT6N202	N
5K OHM	CT6N502	N
10K OHM	CT6N103	N
20K OHM	CT6N203	N
25K OHM	CT6N253	N
50K OHM	CT6N503	N
100K OHM	CT6N104	N
200K OHM	CT6N204	N
250K OHM	CT6N254	N
500K OHM	CT6N504	N
1M OHM	CT6N105	N
2M OHM	CT6N205	N
10 OHM	CT6G100	G
20 OHM	CT6G200	G
50 OHM	CT6G500	G
100 OHM	CT6G101	G
200 OHM	CT6G201	G
500 OHM	CT6G501	G
1K OHM	CT6G102	G
2K OHM	CT6G202	G
5K OHM	CT6G502	G
10K OHM	CT6G103	G
20K OHM	CT6G203	G
25K OHM	CT6G253	G
50K OHM	CT6G503	G
100K OHM	CT6G104	G
200K OHM	CT6G204	G
250K OHM	CT6G254	G
500K OHM	CT6G504	G
1M OHM	CT6G105	G
2M OHM	CT6G205	G
10 OHM	CT6MP100	MP
20 OHM	CT6MP200	MP
50 OHM	CT6MP500	MP
100 OHM	CT6MP101	MP
200 OHM	CT6MP201	MP
500 OHM	CT6MP501	MP
1K OHM	CT6MP102	MP
2K OHM	CT6MP202	MP
5K OHM	CT6MP502	MP
10K OHM	CT6MP103	MP

All parts listed are bulk or magazine.

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

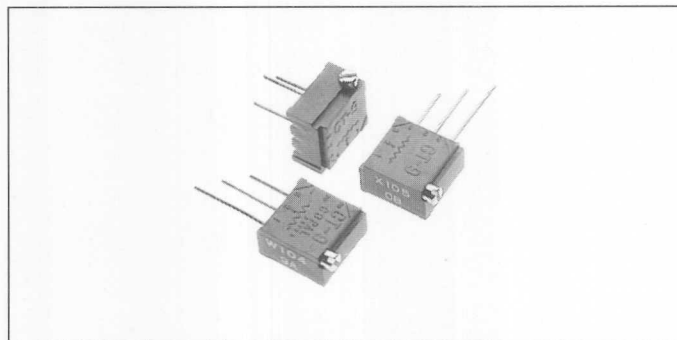
Value	Philips Part Number	PIN
20K OHM	CT6MP203	MP
25K OHM	CT6MP253	MP
50K OHM	CT6MP503	MP
100K OHM	CT6MP104	MP
200K OHM	CT6MP204	MP
250K OHM	CT6MP254	MP
500K OHM	CT6MP504	MP
1M OHM	CT6MP105	MP
2M OHM	CT6MP205	MP
10 OHM	CT6MS100	MS
20 OHM	CT6MS200	MS
50 OHM	CT6MS500	MS
100 OHM	CT6MS101	MS
200 OHM	CT6MS201	MS
500 OHM	CT6MS501	MS
1K OHM	CT6MS102	MS
2K OHM	CT6MS202	MS
5K OHM	CT6MS502	MS
10K OHM	CT6MS103	MS
20K OHM	CT6MS203	MS
25K OHM	CT6MS253	MS
50K OHM	CT6MS503	MS
100K OHM	CT6MS104	MS
200K OHM	CT6MS204	MS
250K OHM	CT6MS254	MS
500K OHM	CT6MS504	MS
1M OHM	CT6MS105	MS
2M OHM	CT6MS205	MS

All parts listed are magazine.

Value	Philips Part Number	PIN
20K OHM	CT6MP203	MP
25K OHM	CT6MP253	MP
50K OHM	CT6MP503	MP
100K OHM	CT6MP104	MP
200K OHM	CT6MP204	MP
250K OHM	CT6MP254	MP
500K OHM	CT6MP504	MP
1M OHM	CT6MP105	MP
2M OHM	CT6MP205	MP
10 OHM	CT6MS100	MS
20 OHM	CT6MS200	MS
50 OHM	CT6MS500	MS
100 OHM	CT6MS101	MS
200 OHM	CT6MS201	MS
500 OHM	CT6MS501	MS
1K OHM	CT6MS102	MS
2K OHM	CT6MS202	MS
5K OHM	CT6MS502	MS
10K OHM	CT6MS103	MS
20K OHM	CT6MS203	MS
25K OHM	CT6MS253	MS
50K OHM	CT6MS503	MS
100K OHM	CT6MS104	MS
200K OHM	CT6MS204	MS
250K OHM	CT6MS254	MS
500K OHM	CT6MS504	MS
1M OHM	CT6MS105	MS
2M OHM	CT6MS205	MS

9mm Leaded Trimmer Multiturn Model CT-9

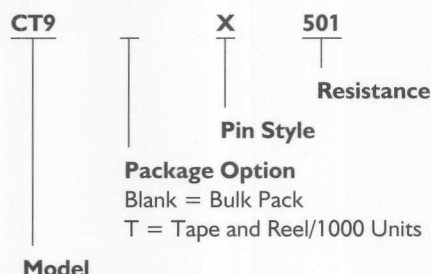
PHILIPS



Features

- Sealed to Withstand Board Washing
- Precious Metal Contact
- Highly Automated Assembly
- Bulk or Tape and Reel Packaging

Part Number



Marking

Units Marked With Model Number, Pin Style, Resistance Code, and Date Code

Standard Resistance Values and Codes			
Ω	Code	Ω	Code
10	100	20 K	203
20	200	25 K	253
50	500	50 K	503
100	101	100 K	104
200	201	200 K	204
500	501	250 K	254
1 K	102	500 K	504
2 K	202	1 M	105
5 K	502	2 M	205
10 K	103	5 M	505

Specifications

Electrical

Resistance Range	: 10 Ohms to 5 Meg. Ohms
Resistance Tolerance	: $\pm 10\%$ Standard
Temp. Coeff. Of Resistance	: 50 Ohms to 2 Meg. ± 100 ppm/ $^{\circ}$ C others ± 250 ppm/ $^{\circ}$ C.
Power Rating	: 1/2 Watt at 70 $^{\circ}$ C
Operating Voltage Max.	: 300 VDC or Power Rating, whichever is less.

Multiturn Trimming Potentiometer 9 mm Square, Cermet Model CT-9

Electrical (continued)

Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle	: 16 Turns, Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55 $^{\circ}$ C to +125 $^{\circ}$ C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 900 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle	: 18 Turns, Nominal
Operating Torque	: 360 gram-cm (5 Oz-in.) max.
Stop Strength, Min.	: Not Applicable, wiper idles
Rotational Life	: 200 cycles 10 Ω To 200 Ω , $\Delta R/R \leq \pm (0.5\Omega + 3\%)$ 500 Ω To 5M Ω , $\Delta R/R \leq \pm (0.5\Omega + 2\%)$
Solderability	: Mil-Std-202, Method 208
Terminal Strength, Min.	: 1 Kg

Environmental (MIL-R-22097)

Thermal Shock:

(-65 $^{\circ}$ C to 125 $^{\circ}$ C) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Humidity:

(80 - 98% RH, 240 Hrs.) $\Delta R/R \leq 1.00\%$

Mech. Shock:

(100 g) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Vibration:

(20 g, 10 to 2000 Hz.) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Low Temp. Operation:

(-55 $^{\circ}$ C, 2 Hrs.) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 2.00\%$

High Temp. Exposure:

(125 $^{\circ}$ C, 250 Hrs.) $\Delta R/R \leq 2.00\%$ $\Delta SS \leq 2.00\%$

Load Life:

(70 $^{\circ}$ C, 0.50 W, 1000 Hrs.) $\Delta R/R \leq 2.00\%$ $\Delta SS \leq 1.00\%$

Soldering Heat:

(350 $^{\circ}$ C, 3 Sec.) $\Delta R/R \leq 1.00\%$

Immersion:

Fluorocarbon Liquid, 85 $^{\circ}$ C, 1 min.
No Leaks

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Value	Philips Part Number	PIN
10 OHM	CT9P100	P
20 OHM	CT9P200	P
50 OHM	CT9P500	P
100 OHM	CT9P101	P
200 OHM	CT9P201	P
500 OHM	CT9P501	P
1K OHM	CT9P102	P
2K OHM	CT9P202	P
5K OHM	CT9P502	P
10K OHM	CT9P103	P
20K OHM	CT9P203	P
25K OHM	CT9P253	P
50K OHM	CT9P503	P
100K OHM	CT9P104	P
200K OHM	CT9P204	P
250K OHM	CT9P254	P
500K OHM	CT9P504	P
1M OHM	CT9P105	P
2M OHM	CT9P205	P
5M OHM	CT9P505	P
10 OHM	CT9W100	W
20 OHM	CT9W200	W
50 OHM	CT9W500	W
100 OHM	CT9W101	W
200 OHM	CT9W201	W
500 OHM	CT9W501	W
1K OHM	CT9W102	W
2K OHM	CT9W202	W
5K OHM	CT9W502	W
10K OHM	CT9W103	W
20K OHM	CT9W203	W
25K OHM	CT9W253	W
50K OHM	CT9W503	W
100K OHM	CT9W104	W
200K OHM	CT9W204	W
250K OHM	CT9W254	W
500K OHM	CT9W504	W
1M OHM	CT9W105	W
2M OHM	CT9W205	W
5M OHM	CT9W505	W
10 OHM	CT9X100	X
20 OHM	CT9X200	X
50 OHM	CT9X500	X
100 OHM	CT9X101	X
200 OHM	CT9X201	X
500 OHM	CT9X501	X
1K OHM	CT9X102	X
2K OHM	CT9X202	X
5K OHM	CT9X502	X
10K OHM	CT9X103	X

Value	Philips Part Number	PIN
20K OHM	CT9X203	X
25K OHM	CT9X253	X
50K OHM	CT9X503	X
100K OHM	CT9X104	X
200K OHM	CT9X204	X
250K OHM	CT9X254	X
500K OHM	CT9X504	X
1M OHM	CT9X105	X
2M OHM	CT9X205	X
5M OHM	CT9X505	X

All parts listed are bulk.

Philips Part Number	Value
CT20P100	10 OHM
CT20P200	20 OHM
CT20P500	50 OHM
CT20P101	100 OHM
CT20P201	200 OHM
CT20P501	500 OHM
CT20P102	1K OHM
CT20P202	2K OHM
CT20P502	5K OHM
CT20P103	10K OHM
CT20P203	20K OHM
CT20P253	25K OHM
CT20P503	50K OHM
CT20P104	100K OHM
CT20P204	200K OHM
CT20P254	250K OHM
CT20P504	500K OHM
CT20P105	1 MEG OHM
CT20P205	2 MEG OHM

All parts listed are side adjust P pin style.

All parts listed are bulk MPQ 100.

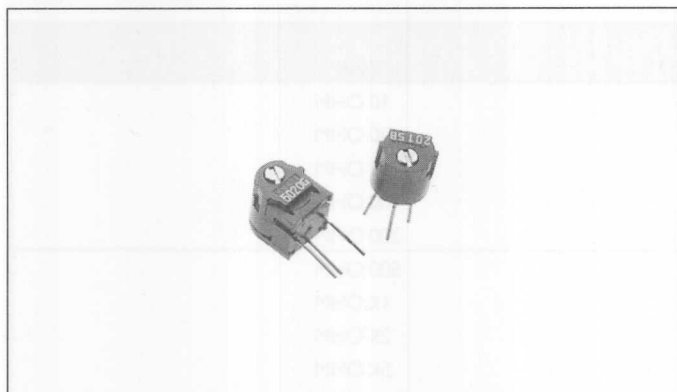
Philips Part Number	Value
CT20X100	10 OHM
CT20X200	20 OHM
CT20X500	50 OHM
CT20X101	100 OHM
CT20X201	200 OHM
CT20X501	500 OHM
CT20X102	1K OHM
CT20X202	2K OHM
CT20X502	5K OHM
CT20X103	10K OHM
CT20X203	20K OHM
CT20X253	25K OHM
CT20X503	50K OHM
CT20X104	100K OHM
CT20X204	200K OHM
CT20X254	250K OHM
CT20X504	500K OHM
CT20X105	1 MEG OHM
CT20X205	2 MEG OHM

All parts listed are side adjust X pin style.

All parts listed are bulk MPQ 100.

7mm Multiturn Trimmer Model TM-7

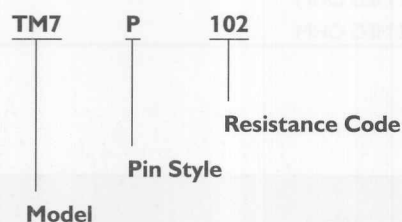
PHILIPS



Features

- Multiturn Trimmer in Compact Size
- Sealed to Allow for Automatic Processing
- Precious Metal Contact

Part Number



Marking

Units Marked With Resistance Code and Date Code

Packaging

Bulk Pack

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
50	500	20 K	203
100	101	50 K	503
200	201	100 K	104
500	501	200 K	204
1 K	102	500 K	504
2 K	202	1 M	105
5 K	502	2 M	205
10 K	103		

Specifications

Electrical

Resistance Range	: 50 Ohms to 2 Meg. Ohms
Resistance Tolerance	: $\pm 10\%$ Standard
Temp. Coeff. Of Resistance	: 50 Ohms to 2 Meg. $\pm 100 \text{ ppm}/^\circ\text{C}$
Power Rating	: 1/2 Watt at 70°C
Operating Voltage Max.	: 300 VDC or Power Rating, whichever is less.

Multiturn Trimming Potentiometer 7 mm Round, Cermet Model TM-7

Electrical (continued)

Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle	: 2-1/2 Turns Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55°C to $+125^\circ\text{C}$
Insulation Resistance, Min.	: Min 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 900 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle	: 3 turns nominal
Operating Torque	: 200 gram-cm (2.78 Oz-in.) max.
Stop Strength, Min.	: Not Applicable, Wiper Idles
Terminal Strength, Min.	: 1 Kg (MIL-R-22097)
Rotational Life	: 200 cycles ($\Delta R/R \leq 2\% + 3\%$)
Solderability	: Mil-Std-202, Method 208

Environmental (MIL-R-22097)

Thermal Shock:

(-65°C to 125°C) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Humidity:

(80 - 98% RH, 240 Hrs.) $\Delta R/R \leq 2.00\%$

Mech. Shock:

(100 g) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Vibration:

(20 g, 10 to 2000 Hz.) $\Delta R/R \leq 1.00\%$ $\Delta SS \leq 1.00\%$

Low Temp. Operation:

(-55°C , 2 Hrs.) $\Delta R/R \leq 2.00\%$ $\Delta SS \leq 2.00\%$

High Temp. Exposure:

(125°C , 250 Hrs.) $\Delta R/R \leq 3.00\%$ $\Delta SS \leq 2.00\%$

Load Life:

(70°C , 0.50 W, 1000 Hrs.) $\Delta R/R \leq 3.00\%$ $\Delta SS \leq 1.00\%$

Soldering Heat:

(350°C , 3 Sec.) $\Delta R/R \leq 1.00\%$

Immersion:

Fluorocarbon Liquid, 85°C , 1 min.
No Leaks

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.

Philips Part Number	Value
TM7P100	10 OHM
TM7P200	20 OHM
TM7P500	50 OHM
TM7P101	100 OHM
TM7P201	200 OHM
TM7P501	500 OHM
TM7P102	1K OHM
TM7P202	2K OHM
TM7P502	5K OHM
TM7P103	10K OHM
TM7P203	20K OHM
TM7P503	50K OHM
TM7P104	100K OHM
TM7P204	200K OHM
TM7P504	500K OHM
TM7P105	1 MEG OHM
TM7P205	2 MEG OHM

All parts listed are top adjust P pin style.

All parts listed are bulk MPQ 100.

Philips Part Number	Value
TM7W100	10 OHM
TM7W200	20 OHM
TM7W500	50 OHM
TM7W101	100 OHM
TM7W201	200 OHM
TM7W501	500 OHM
TM7W102	1K OHM
TM7W202	2K OHM
TM7W502	5K OHM
TM7W103	10K OHM
TM7W203	20K OHM
TM7W503	50K OHM
TM7W104	100K OHM
TM7W204	200K OHM
TM7W504	500K OHM
TM7W105	1 MEG OHM
TM7W205	2 MEG OHM

All parts listed are top adjust W pin style.

All parts listed are bulk MPQ 100.

7mm Multiturn Trimmer Model TM-7

PHILIPS

Philips Part Number	Value
TM7X100	10 OHM
TM7X200	20 OHM
TM7X500	50 OHM
TM7X101	100 OHM
TM7X201	200 OHM
TM7X501	500 OHM
TM7X102	1K OHM
TM7X202	2K OHM
TM7X502	5K OHM
TM7X103	10K OHM
TM7X203	20K OHM
TM7X503	50K OHM
TM7X104	100K OHM
TM7X204	200K OHM
TM7X504	500K OHM
TM7X105	1 MEG OHM
TM7X205	2 MEG OHM

All parts listed are side adjust X pin style.

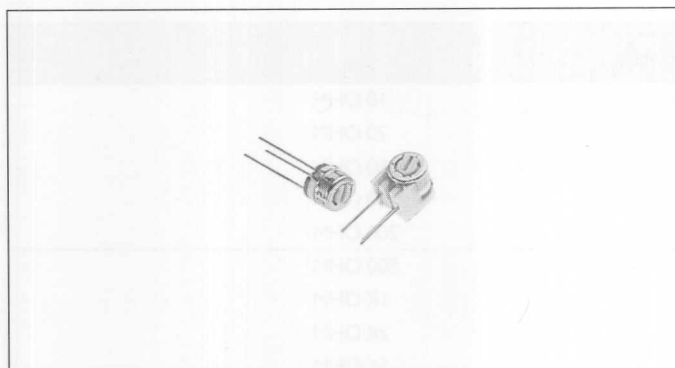
All parts listed are bulk MPQ 100.

Philips Part Number	Value
TM7S100	10 OHM
TM7S200	20 OHM
TM7S500	50 OHM
TM7S101	100 OHM
TM7S201	200 OHM
TM7S501	500 OHM
TM7S102	1K OHM
TM7S202	2K OHM
TM7S502	5K OHM
TM7S103	10K OHM
TM7S203	20K OHM
TM7S503	50K OHM
TM7S104	100K OHM
TM7S204	200K OHM
TM7S504	500K OHM
TM7S105	1 MEG OHM
TM7S205	2 MEG OHM

All parts listed are side adjust S pin style.

All parts listed are bulk MPQ 100.

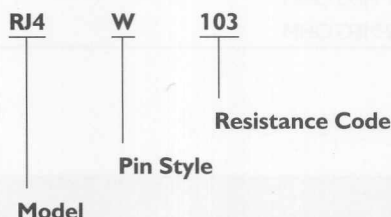
FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Features

- Sealed to Allow for Automatic Processing
- Precious Metal Contact

Part Number



Marking

Units Marked With Model Number, Resistance Code, and Date Code

Packaging

Bulk Pack

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
10	100	10 K	103
20	200	20 K	203
50	500	50 K	503
100	101	100 K	104
200	201	200 K	204
500	501	500 K	504
1 K	102	1 M	105
2 K	202	2 M	205
5 K	502		

Specifications

Electrical

Resistance Range	: 10 Ohms to 2 Meg. Ohms
Resistance Tolerance	: $\pm 10\%$ Standard
Temp. Coeff. Of Resistance	: 100 Ohms to 2 Meg. ± 100 ppm/ $^{\circ}$ C others $^{\circ}$ 250 ppm/ $^{\circ}$ C.
Power Rating	: 1/2 Watt at 70 $^{\circ}$ C
Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.

Electrical (continued)

Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle	: 200 $^{\circ}$ Nominal.
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55 $^{\circ}$ C to +125 $^{\circ}$ C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 500 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 230 $^{\circ}$ Nominal
Operating Torque	: 150 gram-cm (2.08 Oz-in.) max.
Stop Strength, Min.	: 450 gram-cm (6.25 Oz-in.) max.
Terminal Strength, Min.	: 1 Kg
Rotational Life	: 200 cycles 10 Ω to 200 Ω , Δ R/R $\leq 0.5 \Omega + 3\%$ 500 Ω to 2 M Ω , Δ R/R $\leq 0.5 \Omega + 2\%$

Environmental (MIL-R-22097)

Thermal Shock:

(-65 $^{\circ}$ C to 125 $^{\circ}$ C)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Humidity:

(80 - 98% RH, 240 Hrs.)	Δ R/R $\leq 1.00\%$
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Mech. Shock:

(100 g)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Vibration:

(20 g, 10 to 2000 Hz.)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Low Temp. Operation:

(-55 $^{\circ}$ C, 2 Hrs.)	Δ R/R $\leq 2.00\%$ Δ SS $\leq 2.00\%$
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High Temp. Exposure:

(125 $^{\circ}$ C, 250 Hrs.)	Δ R/R $\leq 3.00\%$ Δ SS $\leq 2.00\%$
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Load Life:

(70 $^{\circ}$ C, 0.50 W, 1000 Hrs.)	Δ R/R $\leq 3.00\%$ Δ SS $\leq 1.00\%$
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Soldering Heat:

(350 $^{\circ}$ C, 3 Sec.)	Δ R/R $\leq 1.00\%$
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Immersion:

	Fluorocarbon Liquid, 85 $^{\circ}$ C, 1 min. No Leaks
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4mm Leaded Trimmer Single Turn Model RJ-4

PHILIPS

Philips Part Number	Value
RJ4W100	10 OHM
RJ4W200	20 OHM
RJ4W500	50 OHM
RJ4W101	100 OHM
RJ4W201	200 OHM
RJ4W501	500 OHM
RJ4W102	1K OHM
RJ4W202	2K OHM
RJ4W502	5K OHM
RJ4W103	10K OHM
RJ4W203	20K OHM
RJ4W503	50K OHM
RJ4W104	100K OHM
RJ4W204	200K OHM
RJ4W504	500K OHM
RJ4W105	1 MEG OHM
RJ4W205	2 MEG OHM

All parts listed are top adjust.

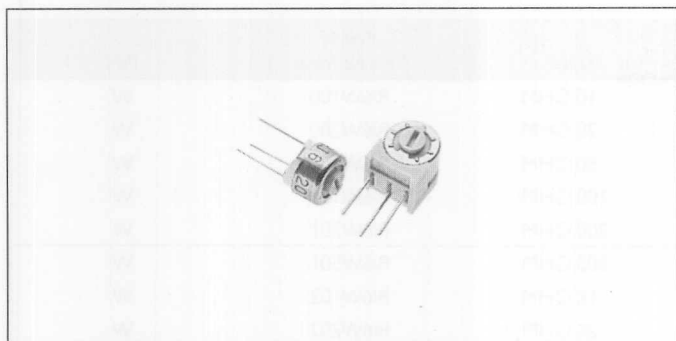
All parts listed are bulk MPQ 200.

Philips Part Number	Value
RJ4WS100	10 OHM
RJ4WS200	20 OHM
RJ4WS500	50 OHM
RJ4WS101	100 OHM
RJ4WS201	200 OHM
RJ4WS501	500 OHM
RJ4WS102	1K OHM
RJ4WS202	2K OHM
RJ4WS502	5K OHM
RJ4WS103	10K OHM
RJ4WS203	20K OHM
RJ4WS503	50K OHM
RJ4WS104	100K OHM
RJ4WS204	200K OHM
RJ4WS504	500K OHM
RJ4WS105	1 MEG OHM
RJ4WS205	2 MEG OHM

All parts listed are side adjust.

All parts listed are bulk MPQ 200.

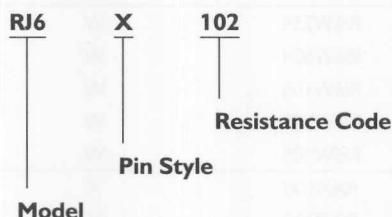
FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Features

- Sealed to Allow for Automatic Processing
- Precious Metal Contact

Part Number



Marking

Units Marked With Model Number, Resistance Code, and Date Code

Packaging

Bulk Pack

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
10	100	20 K	203
20	200	25 K	253
50	500	50 K	503
100	101	100 K	104
200	201	200 K	204
500	501	250 K	254
1 K	102	500 K	504
2 K	202	1 M	105
5 K	502	2 M	205
10 K	103	5 M	505

Specifications

Electrical

Resistance Range	: 10 Ohms to 5 Meg. Ohms
Resistance Tolerance	: $\pm 10\%$ Standard
Temp. Coeff. Of Resistance	: 50 Ohms to 2 Meg. ± 100 ppm/ $^{\circ}$ C others ± 250 ppm/ $^{\circ}$ C.
Power Rating	: 1/2 Watt at 70 $^{\circ}$ C
Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.

Single Turn Trimming Potentiometer 6 mm Round, Cermet Model RJ-6

Electrical (continued)

Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 230 $^{\circ}$ Nominal.
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55 $^{\circ}$ C to 125 $^{\circ}$ C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 900 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 270 $^{\circ}$ Nominal
Operating Torque	: 150 gram-cm (2.08 Oz-in.) max.
Stop Strength, Min.	: 500 gram-cm (6.94 Oz-in.) max.
Terminal Strength, Min.	: 1 Kg
Rotational Life	: 200 cycles 10 Ω to 200 Ω , Δ R/R $\leq 0.5 \Omega + 3\%$ 500 Ω to 5 M Ω , Δ R/R $\leq 0.5 \Omega + 2\%$

Environmental (MIL-R-22097)

Thermal Shock:

(-65 $^{\circ}$ C to +125 $^{\circ}$ C)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Humidity:

(80 - 98% RH, 240 Hrs.)	Δ R/R $\leq 1.00\%$
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Mech. Shock:

(100 g)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Vibration:

(20 g, 10 to 2000 Hz.)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 1.00\%$
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Low Temp. Operation:

(-55 $^{\circ}$ C, 2 Hrs.)	Δ R/R $\leq 1.00\%$ Δ SS $\leq 2.00\%$
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High Temp. Exposure:

(125 $^{\circ}$ C, 250 Hrs.)	Δ R/R $\leq 2.00\%$ Δ SS $\leq 2.00\%$
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Load Life:

(70 $^{\circ}$ C, 0.50 W, 1000 Hrs.)	Δ R/R $\leq 2.00\%$ Δ SS $\leq 1.00\%$
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Soldering Heat:

(350 $^{\circ}$ C, 3 Sec.)	Δ R/R $\leq 1.00\%$
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Immersion:

Fluorocarbon Liquid, 85 $^{\circ}$ C, 1 min.	No Leaks
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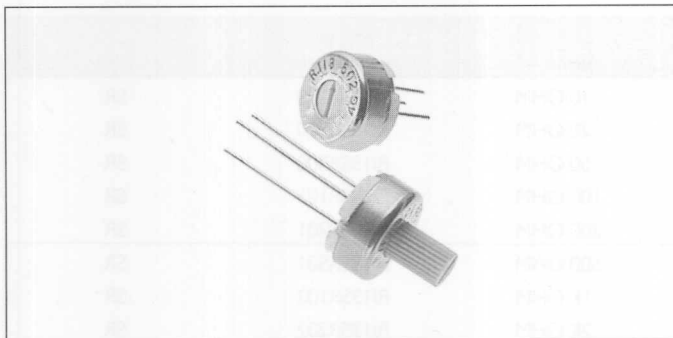
6mm Leaded Trimmer Single Turn Model RJ-6

PHILIPS

Value	Philips Part Number	PIN
10 OHM	RJ6P100	P
20 OHM	RJ6P200	P
50 OHM	RJ6P500	P
100 OHM	RJ6P101	P
200 OHM	RJ6P201	P
500 OHM	RJ6P501	P
1K OHM	RJ6P102	P
2K OHM	RJ6P202	P
5K OHM	RJ6P502	P
10K OHM	RJ6P103	P
20K OHM	RJ6P203	P
25K OHM	RJ6P253	P
50K OHM	RJ6P503	P
100K OHM	RJ6P104	P
200K OHM	RJ6P204	P
250K OHM	RJ6P254	P
500K OHM	RJ6P504	P
1M OHM	RJ6P105	P
2M OHM	RJ6P205	P
5M OHM	RJ6P505	P
10 OHM	RJ6S100	S
20 OHM	RJ6S200	S
50 OHM	RJ6S500	S
100 OHM	RJ6S101	S
200 OHM	RJ6S201	S
500 OHM	RJ6S501	S
1K OHM	RJ6S102	S
2K OHM	RJ6S202	S
5K OHM	RJ6S502	S
10K OHM	RJ6S103	S
20K OHM	RJ6S203	S
25K OHM	RJ6S253	S
50K OHM	RJ6S503	S
100K OHM	RJ6S104	S
200K OHM	RJ6S204	S
250K OHM	RJ6S254	S
500K OHM	RJ6S504	S
1M OHM	RJ6S105	S
2M OHM	RJ6S205	S
5M OHM	RJ6S505	S

Value	Philips Part Number	PIN
10 OHM	RJ6W100	W
20 OHM	RJ6W200	W
50 OHM	RJ6W500	W
100 OHM	RJ6W101	W
200 OHM	RJ6W201	W
500 OHM	RJ6W501	W
1K OHM	RJ6W102	W
2K OHM	RJ6W202	W
5K OHM	RJ6W502	W
10K OHM	RJ6W103	W
20K OHM	RJ6W203	W
25K OHM	RJ6W253	W
50K OHM	RJ6W503	W
100K OHM	RJ6W104	W
200K OHM	RJ6W204	W
250K OHM	RJ6W254	W
500K OHM	RJ6W504	W
1M OHM	RJ6W105	W
2M OHM	RJ6W205	W
5M OHM	RJ6W505	W
10 OHM	RJ6X100	X
20 OHM	RJ6X200	X
50 OHM	RJ6X500	X
100 OHM	RJ6X101	X
200 OHM	RJ6X201	X
500 OHM	RJ6X501	X
1K OHM	RJ6X102	X
2K OHM	RJ6X202	X
5K OHM	RJ6X502	X
10K OHM	RJ6X103	X
20K OHM	RJ6X203	X
25K OHM	RJ6X253	X
50K OHM	RJ6X503	X
100K OHM	RJ6X104	X
200K OHM	RJ6X204	X
250K OHM	RJ6X254	X
500K OHM	RJ6X504	X
1M OHM	RJ6X105	X
2M OHM	RJ6X205	X
5M OHM	RJ6X505	X

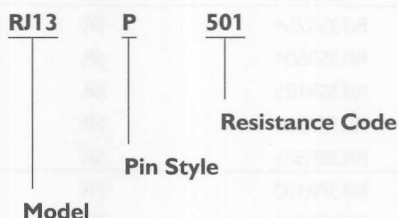
FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Features

- Sealed to Allow for Automatic Processing
- Precious Metal Contact

Part Number



Marking

Units Marked With Model Number, Resistance Code, and Date Code

Packaging

Bulk Pack

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
10	100	20 K	203
20	200	25 K	253
50	500	50 K	503
100	101	100 K	104
200	201	200 K	204
500	501	250 K	254
1 K	102	500 K	504
2 K	202	1 M	105
5 K	502	2 M	205
10 K	103	5 M	505

Specifications

Electrical

Resistance Range	: 10 Ohms to 5 Meg. Ohms
Resistance Tolerance	: $\pm 10\%$ Standard
Temp. Coeff. Of Resistance	: 50 Ohms to 2 Meg. ± 100 ppm/ $^{\circ}$ C others ± 250 ppm/ $^{\circ}$ C.
Power Rating	: 3/4 Watt at 70 $^{\circ}$ C
Operating Voltage Max.	: 300 VDC or Power Rating, whichever is less.

Single Turn Trimming Potentiometer 13 mm Round, Cermet Model RJ-13

Electrical (continued)

Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 230 $^{\circ}$ Nominal.
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55 $^{\circ}$ C to 125 $^{\circ}$ C
Insulation Resistance, Min.	: Min. 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 900 VAC rms, 1 minute, 1 milliamp max.

Mechanical

Mechanical Angle, Nominal	: 270 $^{\circ}$ Nominal
Operating Torque	: 350 gram-cm (4.86 Oz-in.) max.
Stop Strength, Min.	: 1 Kilogram-cm max.
Terminal Strength, Min.	: 2 Kg
Rotational Life	: 200 cycles
	10 Ω to 200 Ω , ▲ R/R $\leq 0.5 \Omega + 3\%$ 500 Ω to 2 M Ω , ▲ R/R $\leq 0.5 \Omega + 2\%$

Environmental (MIL-R-22097)

Thermal Shock:

(-65 $^{\circ}$ C to +125 $^{\circ}$ C)	▲ R/R $\leq 1.00\%$ ▲ SS $\leq 1.00\%$
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Humidity:

(80 - 98% RH, 240 Hrs.)	▲ R/R $\leq 1.00\%$
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Mech. Shock:

(100 g)	▲ R/R $\leq 1.00\%$ ▲ SS $\leq 1.00\%$
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Vibration:

(20 g, 10 to 2000 Hz.)	▲ R/R $\leq 1.00\%$ ▲ SS $\leq 1.00\%$
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Low Temp. Operation:

(-55 $^{\circ}$ C, 2 Hrs.)	▲ R/R $\leq 1.00\%$ ▲ SS $\leq 2.00\%$
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High Temp. Exposure:

(125 $^{\circ}$ C, 250 Hrs.)	▲ R/R $\leq 2.00\%$ ▲ SS $\leq 2.00\%$
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Load Life:

(70 $^{\circ}$ C, 0.75 W, 1000 Hrs.)	▲ R/R $\leq 2.00\%$ ▲ SS $\leq 1.00\%$
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Soldering Heat:

(350 $^{\circ}$ C, 3 Sec.)	▲ R/R $\leq 1.00\%$
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Immersion:

	Fluorocarbon Liquid, 85 $^{\circ}$ C, 1 min.
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No Leaks

13mm Leaded Trimmer Single Turn Model RJ-13

PHILIPS

Value	Philips Part Number	PIN
10 OHM	RJ13P100	P
20 OHM	RJ13P200	P
50 OHM	RJ13P500	P
100 OHM	RJ13P101	P
200 OHM	RJ13P201	P
500 OHM	RJ13P501	P
1K OHM	RJ13P102	P
2K OHM	RJ13P202	P
5K OHM	RJ13P502	P
10K OHM	RJ13P103	P
20K OHM	RJ13P203	P
25K OHM	RJ13P253	P
50K OHM	RJ13P503	P
100K OHM	RJ13P104	P
200K OHM	RJ13P204	P
250K OHM	RJ13P254	P
500K OHM	RJ13P504	P
1M OHM	RJ13P105	P
2M OHM	RJ13P205	P
5M OHM	RJ13P505	P
10 OHM	RJ13S100	S
20 OHM	RJ13S200	S
50 OHM	RJ13S500	S
100 OHM	RJ13S101	S
200 OHM	RJ13S201	S
500 OHM	RJ13S501	S
1K OHM	RJ13S102	S
2K OHM	RJ13S202	S
5K OHM	RJ13S502	S
10K OHM	RJ13S103	S
20K OHM	RJ13S203	S
25K OHM	RJ13S253	S
50K OHM	RJ13S503	S
100K OHM	RJ13S104	S
200K OHM	RJ13S204	S
250K OHM	RJ13S254	S
500K OHM	RJ13S504	S
1M OHM	RJ13S105	S
2M OHM	RJ13S205	S
5M OHM	RJ13S505	S

Value	Philips Part Number	PIN
10 OHM	RJ13SR100	SR
20 OHM	RJ13SR200	SR
50 OHM	RJ13SR500	SR
100 OHM	RJ13SR101	SR
200 OHM	RJ13SR201	SR
500 OHM	RJ13SR501	SR
1K OHM	RJ13SR102	SR
2K OHM	RJ13SR202	SR
5K OHM	RJ13SR502	SR
10K OHM	RJ13SR103	SR
20K OHM	RJ13SR203	SR
25K OHM	RJ13SR253	SR
50K OHM	RJ13SR503	SR
100K OHM	RJ13SR104	SR
200K OHM	RJ13SR204	SR
250K OHM	RJ13SR254	SR
500K OHM	RJ13SR504	SR
1M OHM	RJ13SR105	SR
2M OHM	RJ13SR205	SR
5M OHM	RJ13SR505	SR
10 OHM	RJ13PR100	PR
20 OHM	RJ13PR200	PR
50 OHM	RJ13PR500	PR
100 OHM	RJ13PR101	PR
200 OHM	RJ13PR201	PR
500 OHM	RJ13PR501	PR
1K OHM	RJ13PR102	PR
2K OHM	RJ13PR202	PR
5K OHM	RJ13PR502	PR
10K OHM	RJ13PR103	PR
20K OHM	RJ13PR203	PR
25K OHM	RJ13PR253	PR
50K OHM	RJ13PR503	PR
100K OHM	RJ13PR104	PR
200K OHM	RJ13PR204	PR
250K OHM	RJ13PR254	PR
500K OHM	RJ13PR504	PR
1M OHM	RJ13PR105	PR
2M OHM	RJ13PR205	PR
5M OHM	RJ13PR505	PR

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Features

- PC Board Mount
- Reduced Cost Compared to Sealed
- Front and Back Adjustable

Part Number

2322-410-

0

33

57

Resistance Code
See Table Below

Adjustment Position
33 = Top Adjust
50 = Side Adjust

Adjustment Style
0 = Without Knob
4 = With Knob (Side Adjust)
6 = With Knob (Top Adjust)

Model

Marking

Units Marked With Resistance Value

Packaging

Bulk Pack

Consult Factory for Other Options Available

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
47	91	10 K	57
100	51	22 K	58
220	52	47 K	59
330	69	100 K	61
470	53	220 K	62
1 K	54	470 K	63
2.2 K	55	1 M	64
4.7 K	56	2.2 M	65
		4.7 M	66

Single Turn Trimming
Potentiometer
Carbon Open Frame
(Non Sealed)
10 mm Square
Model 2322-410

Specifications

Electrical

Resistance Range	: 47 Ohms to 4.7 Meg. Ohms
Resistance Tolerance	: \pm 20% Standard
Temp. Coeff. Of Resistance	: -500 to +300 ppm / $^{\circ}$ C
Power Rating	: 0.1 Watt at 40 $^{\circ}$ C
Operating Voltage Max.	: 150 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 200 $^{\circ}$ Nominal.
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 2% or 10 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 3% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -25 $^{\circ}$ C to 70 $^{\circ}$ C
Insulation Resistance, Min.	: Not Applicable
Dielectric Strength	: Not Applicable

Mechanical

Mechanical Angle, Nominal : 260° Nominal
Operating Torque : 255 gram-cm (3.54 Oz-in.) Max.
Stop Strength, Min. : 510 gram-cm min. (7.08 Oz-in.)
Rotational Life : 200 cycles (▲ R/R $\leq \pm 5\%$;
R13 > 100 Ω)

Environmental

Thermal Shock:

(-25°C to +70°C)

▲ $R/R \leq 2.0\%$ ▲ $SS \leq 0.5\%$

Humidity:

(90% RH, 40°C, 240 Hrs.)

▲ $R/R \leq 10.0\% + 0.5 \Omega$

Mech. Shock:

(40 g)

▲ $R/R \leq 12.0\%$

Vibration:

(10 g, 10 to 500 Hz.)

▲ $R/R \leq 2.0\%$ ▲ $SS \leq 0.30\%$

Low Temp. Operation:

Not Applicable

High Temp. Exposure:

Not Applicable

Load Life:

(40°C, 0.50 W, 1000 Hrs.)

▲ $R/R \leq 10.00\%$ ▲ $SS \leq 0.50\%$

Soldering Heat:

(350°C, 3 Sec.)

▲ $R/R \leq 0.50\% + 0.2 \Omega$

Immersion:

Not Applicable



Single Turn Trimming Potentiometer Cermet Open Frame (Non Sealed) 10 mm Square Model 2322-482

Features

- PC Board Mount
- Reduced Cost Compared to Sealed
- Broad Range of Resistance Values
- Front and Back Adjustable

Part Number

2322-482-	3	0	102
			Resistance Code
			Tolerance
			0 = $\pm 20\%$
			2 = $\pm 10\%$
			Adjustment Style
			3 = Side Adjust (Straight Slot)
			4 = Top Adjust (Straight Slot)
			7 = Side Adjust (Cross Slot)
			8 = Top Adjust (Cross Slot)

Model

Marking

Units Marked With Resistance Value

Packaging

Bulk

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
100	101	33 K	333
150	151	47 K	473
220	221	68 K	683
330	331	100 K	104
470	471	150 K	154
680	681	220 K	224
1 K	102	330 K	334
1.5 K	152	470 K	474
2.2 K	222	680 K	684
3.3 K	332	1 M	105
4.7 K	472	1.5 M	155
6.8 K	682	2.2 M	225
10 K	103	3.3 M	335
15 K	153	4.7 M	475
22 K	223	6.8 M	685
		10 M	106

Specifications

Electrical

Resistance Range	: 100 Ohms to 10 Meg. Ohms
Resistance Tolerance	: $\pm 20\%$ Standard ($\pm 10\%$ Available)
Temp. Coeff. Of Resistance	: ± 100 ppm / $^{\circ}\text{C}$
Power Rating	: 1/2 Watt at 70°C
Operating Voltage Max.	: 500 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 220° Nominal.
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 0.5% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 0.5% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55°C to 125°C
Insulation Resistance, Min.	: Not Applicable
Dielectric Strength	: Not Applicable

Mechanical

Mechanical Angle, Nominal	: 235° Nominal
Operating Torque	: 306 gram-cm (4.25 Oz-in.) Max.
Stop Strength, Min.	: 510 gram-cm min. (7.08 Oz-in.)
Rotational Life	: 200 cycles ($\Delta R/R \leq \pm 5\%$)

Environmental

Thermal Shock:

(-55°C to $+125^{\circ}\text{C}$)

$\Delta R/R \leq 2.00\%$ $\Delta SS \leq 0.5\%$

Humidity:

(90% RH, 40°C , 240 Hrs.)

$\Delta R/R \leq 1.00\%$ $+ 0.5 \Omega$

Mech. Shock:

(40 g)

$\Delta R/R \leq 0.10\%$

Vibration:

(10 g, 10 to 500 Hz.)

$\Delta R/R \leq 0.10\%$ $\Delta SS \leq 0.20\%$

Low Temp. Operation:

Not Applicable

High Temp. Exposure:

Not Applicable

Load Life:

(70°C , 0.50 W, 1000 Hrs.)

$\Delta R/R \leq 1.00\%$ $\Delta SS \leq 0.20\%$

Soldering Heat:

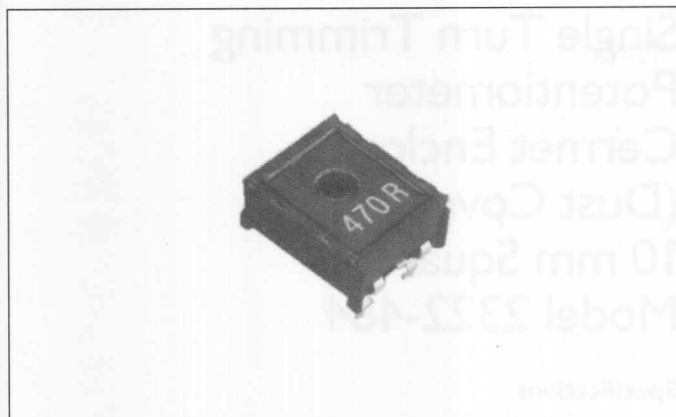
(350°C , 3 Sec.)

$\Delta R/R \leq 1.00\%$ $+ 0.2 \Omega$

Immersion:

Not Applicable

Consult Factory for Other Options Available



Single Turn Trimming Potentiometer Carbon Enclosed (Dust Cover) 10 mm Square Model 2322-483

Features

- PC Board Mount
- Front and Back Adjustable

Part Number

2322-483- 2 2 102

Resistance Code
See Table Below

Tolerance, Packaging, Pins

- 2 = $\pm 20\%$, Bulk, Snap In Pins
- 4 = $\pm 20\%$, Bulk, Straight Pins
- 6 = $\pm 20\%$, Magazine, Snap In Pins
- 8 = $\pm 20\%$, Magazine, Straight Pins

Adjustment Style

- 1 = Side Adjust (Hex, Insulated)
- 2 = Side Adjust (Cross, Insulated)
- 6 = Top Adjust (Hex, Insulated)
- 7 = Top Adjust (Cross, Insulated)

Model

Consult Factory for Other Options Available

Marking

Units Marked With Resistance Value

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
100	101	22 K	223
220	221	47 K	473
470	471	100 K	104
1 K	102	220 K	224
2.2 K	222	470 K	474
4.7 K	472	1 M	105
10 K	103	2.2 M	225
		4.7 M	475

Specifications

Electrical

Resistance Range	: 100 Ohms to 4.7 Meg. Ohms
Resistance Tolerance	: $\pm 20\%$ Standard ($\pm 10\%$ Available)
Temp. Coeff. Of Resistance	: ± 300 ppm / $^{\circ}\text{C}$
Power Rating	: 0.1 Watt at 40°C
Operating Voltage Max.	: 200 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 285° Nominal.
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 2% or 10 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -25°C to 85°C
Insulation Resistance, Min.	: Not Applicable
Dielectric Strength	: Not Applicable

Mechanical

Mechanical Angle, Nominal	: 300° Nominal
Operating Torque	: 102 gram-cm (1.42 Oz-in.) Max.
Stop Strength, Min.	: 510 gram-cm min. (7.08 Oz-in.)
Rotational Life	: 200 cycles (Δ R/R $\leq \pm 10\%$)

Environmental

Thermal Shock:

(-25°C to $+85^{\circ}\text{C}$)

Δ R/R $\leq 5.00\%$ Δ SS $\leq 2.0\%$

Humidity:

(90% RH, 40°C , 240 Hrs.)

Δ R/R $\leq 10.00\%$ + 0.5 Ω

Mech. Shock:

(40 g)

Δ R/R $\leq 2.0\%$

Vibration:

(10 g, 10 to 500 Hz.)

Δ R/R $\leq 2.0\%$ Δ SS $\leq 0.30\%$

Low Temp. Operation:

Not Applicable

High Temp. Exposure:

Not Applicable

Load Life:

(40°C , 0.50 W, 1000 Hrs.)

Δ R/R $\leq 20.00\%$ Δ SS $\leq 0.50\%$

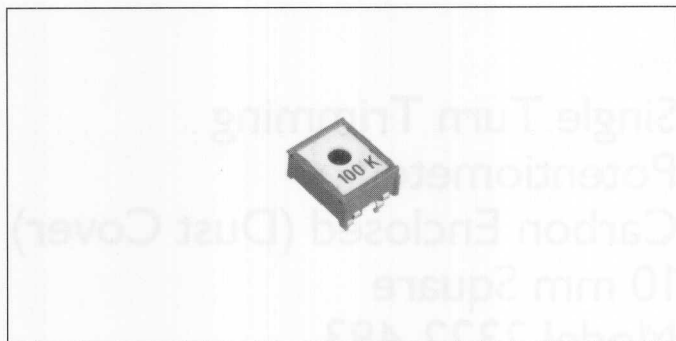
Soldering Heat:

(350°C , 3 Sec.)

Δ R/R $\leq 20.00\%$ Δ SS $\leq 0.50\%$

Immersion:

Not Applicable



Features

- PC Board Mount
- Broad Range of Resistance Values
- Front and Back Adjustable

Part Number

2322-484- 2 2 102

Resistance Code
See Table Below

Tolerance, Packaging, Pins

- 2 = $\pm 20\%$, Bulk, Snap In Pins
 4 = $\pm 20\%$, Bulk, Straight Pins
 6 = $\pm 20\%$, Magazine, Snap In Pins
 8 = $\pm 20\%$, Magazine, Straight Pins

Adjustment Style

- 1 = Side Adjust (Hex Slot)
 2 = Side Adjust (Cross Slot)
 6 = Top Adjust (Hex Slot)
 7 = Top Adjust (Cross Slot)

Model

Consult Factory for Other Options Available

Marking

Units Marked With Resistance Value

Standard Resistance Value and Codes			
Ω	Code	Ω	Code
47	479	22 K	223
68	689	33K	333
100	101	47 K	473
150	151	68 K	683
220	221	100 K	104
330	331	150 K	154
470	471	220 K	224
680	681	330 K	334
1 K	102	470 K	474
1.5 K	152	680 K	684
2.2 K	222	1.0 M	105
3.3 K	332	1.5 M	155
4.7 K	472	2.2 M	225
6.8 K	682	3.3 M	335
10 K	103	4.7 M	475
15 K	153	6.8 M	685
		10 M	106

Single Turn Trimming Potentiometer Cermet Enclosed (Dust Cover) 10 mm Square Model 2322-484

Specifications

Electrical

Resistance Range	: 47 Ohms to 10 Meg. Ohms
Resistance Tolerance	: $\pm 20\%$ Standard ($\pm 10\%$ Available)
Temp. Coeff. Of Resistance	: ± 100 ppm / $^{\circ}\text{C}$
Power Rating	: 1/2 Watt at 40°C
Operating Voltage Max.	: 250 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or Power Rating, whichever is less.
Electrical Angle, Nominal	: 295° Nominal.
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 0.5% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range.	: -55°C to 125°C
Insulation Resistance, Min.	: Not Applicable
Dielectric Strength	: Not Applicable

Mechanical

Mechanical Angle, Nominal	: 300° Nominal
Operating Torque	: 204 gram-cm (2.83 Oz-in.) Max.
Stop Strength, Min.	: 510 gram-cm min. (7.08 Oz-in.)
Rotational Life	: 200 cycles (\blacktriangle R/R $\leq \pm 5\%$)

Environmental

Thermal Shock:

(-55°C to $+125^{\circ}\text{C}$)

\blacktriangle R/R $\leq 2.00\%$ \blacktriangle SS $\leq 1.0\%$

Humidity:

(90% RH, 40°C , 240 Hrs.)

\blacktriangle R/R $\leq 2.00\% + 0.2 \Omega$

Mech. Shock:

(40 g)

\blacktriangle R/R $\leq 0.10\%$

Vibration:

(10 g, 10 to 500 Hz.)

\blacktriangle R/R $\leq 0.50\%$ \blacktriangle SS $\leq 0.30\%$

Low Temp. Operation:

Not Applicable

High Temp. Exposure:

Not Applicable

Load Life:

(40°C , 0.50 W, 1000 Hrs.)

\blacktriangle R/R $\leq 2.00\%$ \blacktriangle SS $\leq 3.00\%$

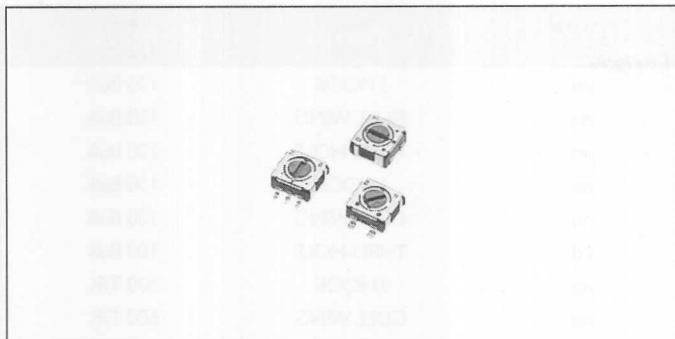
Soldering Heat:

(350°C , 3 Sec.)

\blacktriangle R/R $\leq 1.00\% + 0.2 \Omega$

Immersion:

Not Applicable



Features

- Sealed to Allow for Automatic Processing
- Gull Wing and J Lead
- Highly Automated Assembly
- Bulk or Tape and Reel Packaging

Part Number

CS-4	1	3	N	T	A
					Terminal Type A = J Hook B = Gull Wing C = Thru Hole (1 Pole 2 Contact Only)
					Packaging Blank = Bulk T = Tape and Reel/500 Units
					Contact Timing N = Non-Shorting (1 Pole, 3 Contact Only) Y = Non-Shorting with Neutral Detent (1 Pole 2 Contacts, 2 Pole 2 Contacts) X = Non-Shorting w/o Neutral Contact (1 Pole 2 Contacts Only)
					No. of Contacts (Throws) 2 = 2 Contacts 3 = 3 Contacts
					No. of Poles 1 = 1 Pole 2 = 2 Pole

Model

Marking

Units Marked With Two Digit Date Code and Switch Position Marks

Specifications

General

Operating Temp. Range	: -25°C TO +70°C
Storage Temp. Range	: -40°C TO +70°C
Sealing Method	: O Ring Sealed

Electrical

Contact Rating	: DC 0.5 VA
Maximum Current	: 100 mA max.
Maximum Voltage	: 16 VDC
Contact Resistance	: 100 mΩ max. @ 1KHz, 20 mV
Insulation Resistance	: 100 MΩ min. @ 500 Vdc
Dielectric Strength	: 1 mA max. 500 VAC @ 50 Hz For 60 Sec.

Mechanical

Shart Torque	: 100 g-CM (1.39 oz-in) max.
Number Of Positions	: 3 Max
Step Angle	: 45° 90° (CS-4-12x only)
Rotational Life	: 200 Cycles min.
Stop Strength	: 250 g-cm (3.47 oz-in) min.

Environmental (MIL-STD-202)

Thermal Shock:

(-40°C to +70°C, 30 min Dwell,
5 Cycles)

See Criteria Note Below

Humidity:

(90 - 95% RH, 40°C, 48 Hrs.)

See Criteria Note Below

Low Temp. Storage:

(-40°C, 16 Hrs.)

See Criteria Note Below

High Temp. Storage:

(70°C, 16 Hrs.)

See Criteria Note Below

Rotational Life:

(200 Cycles @ 0 Load or 30 mA,
16 VDC

See Criteria Note Below

Soldering Heat:

(260°C, 10 Sec.)

See Criteria Note Below

Mechanical Shock:

(50 g, 11 mS, Sawtooth, 6 Axes,
3 Cycles)

Contact Bounce 0.1 mS max.

Vibration:

(10 g, .060 DA, 10 to 55 Hz,
2 Hrs, 3 Axes)

Contact Bounce 0.1 mS max.

Immersion:

Fluorocarbon Liquid, 85°C, 1 min.
No Leaks

Criteria Note:

Contact Resistance Not Greater Than 100 mΩ

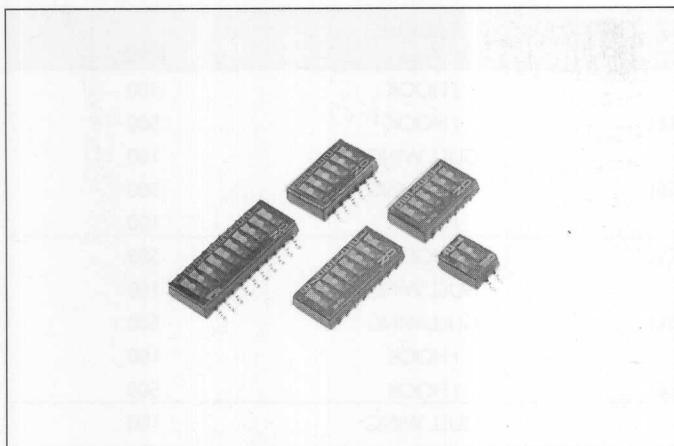
Insulation Resistance Not Less Than 100 MΩ (10 MΩ Humidity)

4mm Surface Mount Selector Switch Model CS-4

PHILIPS

Phillips Part Number	Poles	Positions	Neutral Detent	Pin Style	Pack Quantity
CS412YA	1	2	yes	J HOOK	100 Bulk
CS412YB	1	2	yes	GULL WING	100 Bulk
CS412YC	1	2	yes	THRU-HOLE	100 Bulk
CS412XA	1	2	no	J HOOK	100 Bulk
CS412XB	1	2	no	GULL WING	100 Bulk
CS412XC	1	2	no	THRU-HOLE	100 Bulk
CS412YTA	1	2	yes	J HOOK	500 T/R
CS412YTB	1	2	yes	GULL WING	500 T/R
CS412XTA	1	2	no	J HOOK	500 T/R
CS412XTB	1	2	no	GULL WING	500 T/R
CS413NA	1	3	no	J HOOK	100 Bulk
CS413NB	1	3	no	GULL WING	100 Bulk
CS413NTA	1	3	no	J HOOK	500 T/R
CS413NTB	1	3	no	GULL WING	500 T/R
CS422YA	2	2	yes	J HOOK	100 Bulk
CS422YB	2	2	yes	GULL WING	500 Bulk
CS422YTA	2	2	yes	J HOOK	500 T/R
CS422YTB	2	2	yes	GULL WING	500 T/R

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Surface Mount Slide Switch .050" Lead Pitch Model CHS

Features

- Tape Sealed to Allow for Automatic Processing
- Gull Wing and J Lead
- Highly Automated Assembly
- Bulk or Tape and Reel Packaging

Part Number

CHS	06	T	A
			Terminal Type A = J Hook B = Gull Wing
			Packaging Blank = Bulk T = Tape and Reel/500 Units
			Number = Positions 02 : 2 04 : 4 06 : 6 08 : 8 10 : 10
			Model

Marking

Units Marked With Two Digit Date Code, Switch Position Marks

Specifications

General

Operating Temp. Range	: -40°C TO +85°C
Storage Temp. Range	: -40°C TO +85°C
Sealing Method	: Top Tape

Electrical

Contact Rating	
Non-Switching	: 100 mA @ 50 VDC max.
Switching	: 25 mA @ 24 VDC max. 100 mA @ 6 VDC max.
Contact Resistance	: 50 mΩ max. @ 1KHz, 1.5 mA, 20 mV max.
Insulation Resistance	: 1,000 MΩ min. @ 100 VDC
Dielectric Strength	: 0.5 mA max. 500 VAC @ 50 Hz For 60 Sec.

Mechanical

Operating Force	: 1.0 kgf max.
Mechanical Life	: 2,000 Cycles

Environmental (MIL-STD-202)

Thermal Shock:

(-40°C to +85°C, 30 min Dwell,
5 Cycles) See Criteria Note Below

Temp./Humidity:

(-10°C to +85°C, 0 - 96% RH,
24 Hrs., 10 Cycles) See Criteria Note Below

Low Temp. Storage:

(-40°C, 96 Hrs.) See Criteria Note Below

High Temp. Storage:

(85°C, 96 Hrs.) See Criteria Note Below

Mechanical Life:

(2000 Cycles @ 0 Load or 100
mA, 6 VDC) See Criteria Note Below

Soldering Heat:

(240°C, 30 Sec.) See Criteria Note Below

Mechanical Shock:

(50 g, 11 mS, Semi-Sine Wave,
6 Axes, 3 Cycles) Contact Bounce 10 μS max.

Vibration:

(10 g, .060 DA, 10 to 500 Hz,
2 Hrs, 3 Axes) Contact Bounce 10 μS max.

Criteria Note:

Contact Resistance Not Greater Than 50 mΩ
Insulation Resistance Not Less Than 1,000 MΩ
Operating Force Not Greater Than 1.0 kgf

Surface Mount Slide Switch .050 Lead Pitch Model CHS

PHILIPS

Phillips Part Number	Positions	Packaging Type	Terminal Type	MPQ
CHS02A	2	BULK	J HOOK	100
CHS02TA	2	TAPE & REEL	J HOOK	500
CHS02B	2	BULK	GULL WING	100
CHS02TB	2	TAPE & REEL	GULL WING	500
CHS04A	4	BULK	J HOOK	100
CHS04TA	4	TAPE & REEL	J HOOK	500
CHS04B	4	BULK	GULL WING	100
CHS04TB	4	TAPE & REEL	GULL WING	500
CHS06A	6	BULK	J HOOK	100
CHS06TA	6	TAPE & REEL	J HOOK	500
CHS06B	6	BULK	GULL WING	100
CHS06TB	6	TAPE & REEL	GULL WING	500
CHS08A	8	BULK	J HOOK	100
CHS08TA	8	TAPE & REEL	J HOOK	500
CHS08B	8	BULK	GULL WING	100
CHS08TB	8	TAPE & REEL	GULL WING	500
CHS10A	10	BULK	J HOOK	100
CHS10TA	10	TAPE & REEL	J HOOK	500
CHS10B	10	BULK	GULL WING	100
CHS10TB	10	TAPE & REEL	GULL WING	500

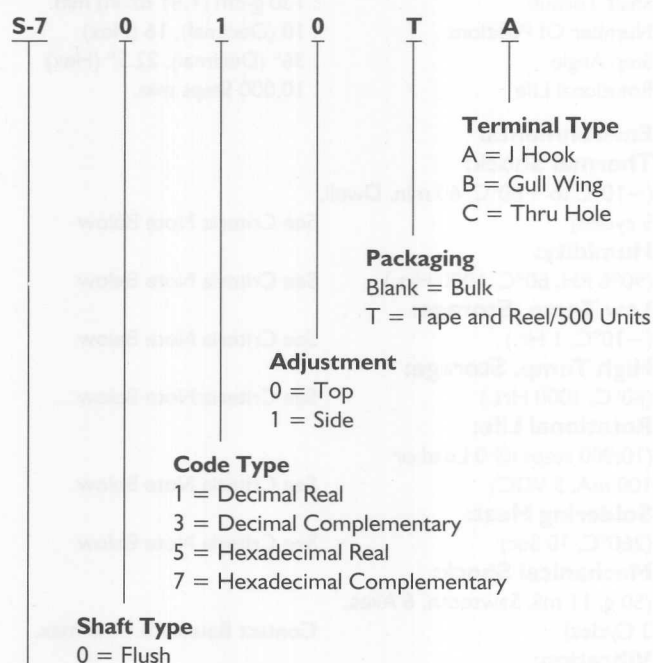
FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Features

- Hexadecimal or Decimal to Binary
- Sealed to Allow for Automatic Processing
- Gull Wing and J Lead or Leaded
- Highly Automated Assembly
- Bulk or Tape and Reel Packaging

Part Number



Model

Marking

Units Marked With Two Digit Date Code, Mark for Complementary Code and Switch Position Marks

Specifications

General

Operating Temp. Range	: -25°C TO +70°C
Storage Temp. Range	: -25°C TO +70°C
Sealing Method	: O Ring Sealed

Electrical

Contact Rating	
Non-Switching	: 100 mA @ 50 VDC max.
Switching	: 100 mA @ 5 VDC max.
Contact Resistance	: 100 mΩ max. @ 1KHz, 20 mV
Insulation Resistance	: 100 MΩ min. 100 VDC
Dielectric Strength	: 1 mA max. 250 VAC @ 50 Hz For 60 Sec.

Mechanical

Shaft Torque	: 200 g-cm (2.78 oz-in) max.
Number Of Positions	: 10 (Decimal), 16 (Hex)
Step Angle	: 36° (Decimal), 22.5° (Hex)
Rotational Life	: 10,000 Steps min.

Environmental

Thermal Shock:

(-25°C to +70°C, 30 min. Dwell, 5 Cycles)	See Criteria Note Below
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Humidity:

(90 - 95% RH, 40°C, 240 Hrs.)	See Criteria Note Below
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Low Temp. Storage:

(-25°C, 96 Hrs.)	See Criteria Note Below
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High Temp. Storage:

(70°C, 96 Hrs.)	See Criteria Note Below
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Rotational Life:

(10,000 Steps @ 0 Load or 100 mA, 5 VDC)	See Criteria Note Below
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Soldering Heat:

(260°C, 10 Sec)	See Criteria Note Below
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Mechanical Shock:

(50 g, 11 mS, Sawtooth, 6 Axes, 3 Cycles)	Contact Bounce 0.1 mS max.
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Vibration:

(10 g, .060 DA, 10 to 200 Hz, 2 Hrs. 3 Axes)	Contact Bounce 0.1 mS max.
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Immersion:

	Fluorocarbon Liquid, 85°C, 1 min.
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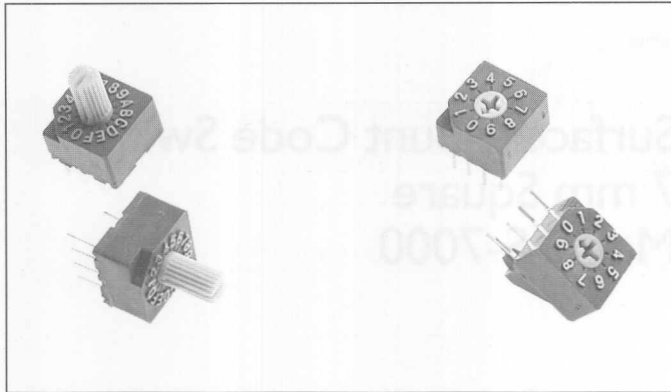
No Leaks

Criteria Note:

Contact Resistance Not Greater Than 100 mΩ
Insulation Resistance Not Less Than 100 MΩ (10 MΩ Humidity)
Shaft Torque Not Greater Than 200g-cm

10mm Dip Rotary Code Switch Models S-1000, S-2000

PHILIPS

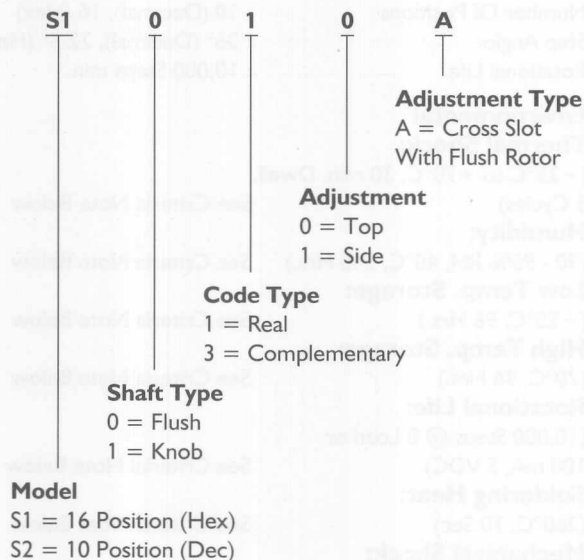


Dip Rotary Code Switch 10 mm Square Models S-1000, S-2000

Features

- Hexadecimal or Decimal to Binary
- Sealed to Allow for Automatic Processing
- Precious Metal Contact
- Pin Spacing Identical to Piano Key Dip Switch

Part Number



Marking

Units Marked With Two Digit Date Code, Full Part Number and Switch Position Marks

Packaging

Bulk Pack

Specifications

General

Operating Temp. Range	: -10°C TO +60°C
Storage Temp. Range	: -20°C TO +70°C
Sealing Method	: O Ring Sealed

Electrical

Contact Rating	
Non-Switching	: 100 mA @ 50 VDC max.
Switching	: 100 mA @ 5 VDC max.
Contact Resistance	: 100 mΩ max. @ 1KHz., 20 mV
Insulation Resistance	: 1000 MΩ min. 100 VDC
Dielectric Strength	: 1 mA max. 300 VAC @ 50 Hz For 60 Sec.

Mechanical

Shaft Torque	: 130 g-cm (1.81 oz-in) min.
Number Of Positions	: 10 (Decimal), 16 (Hex)
Step Angle	: 36° (Decimal), 22.5° (Hex)
Rotational Life	: 10,000 Steps min.

Environmental

Thermal Shock:

(-10°C to +60°C, 60 min. Dwell, 5 cycles) See Criteria Note Below

Humidity:

(90% RH, 60°C, 1000 Hrs.) See Criteria Note Below

Low Temp. Storage:

(-10°C, 1 Hr.) See Criteria Note Below

High Temp. Storage:

(60°C, 1000 Hrs.) See Criteria Note Below

Rotational Life:

(10,000 steps @ 0 Load or 100 mA, 5 VDC) See Criteria Note Below

Soldering Heat:

(260°C, 10 Sec) See Criteria Note Below

Mechanical Shock:

(50 g, 11 mS, Sawtooth, 6 Axes, 3 Cycles) Contact Bounce 0.1 mS max.

Vibration:

(10 g, .060 DA, 10 to 200 Hz, 2 Hrs. 3 Axes) Contact Bounce 0.1 mS max.

Immersion:

Fluorocarbon Liquid, 85°C, 1 min. No Leaks

Criteria Note:

Contact Resistance Not Greater Than 100 mΩ
Insulation Resistance Not Less Than 100 MΩ (10 MΩ Humidity)
Shaft Torque Not Less Than 100 g-cm
No Mechanical Damage

Binary Coded Rotary Switch

List of Types




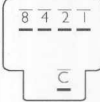
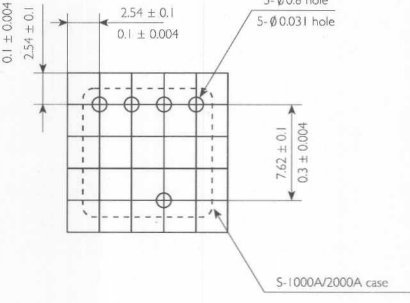
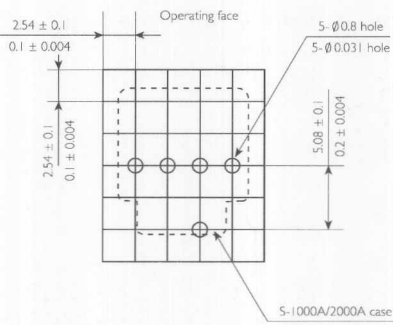
		Binary coded decimal		Binary coded hexadecimal	
		Real code	Complementary code	Real code	Complementary code
Top setting	Without knob	S-2010A	S-2030A	S-1010A	S-1030A
	With knob	S-2110	S-2130	S-1110	S-1130
Side setting	Without knob	S-2011A	S-2031A	S-1011A	S-1031A
	With knob	S-2111	S-2131	S-1111	S-1131

Code Format

		"S-1000" series															
		"S-2000" series															
C o d e	Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
	Real code	8								●	●	●	●	●	●	●	●
		4				●	●	●	●					●	●	●	●
		2			●	●		●	●			●	●			●	●
		1		●		●		●	●		●		●		●		●
	Complementary code	$\overline{8}$	●	●	●	●	●	●	●								
		$\overline{4}$	●	●	●	●				●	●	●	●				
		$\overline{2}$	●	●			●	●		●	●			●	●		
		$\overline{1}$	●		●		●		●	●		●		●		●	

● = contact closed

Terminal/Connection/Size of PCB Processing

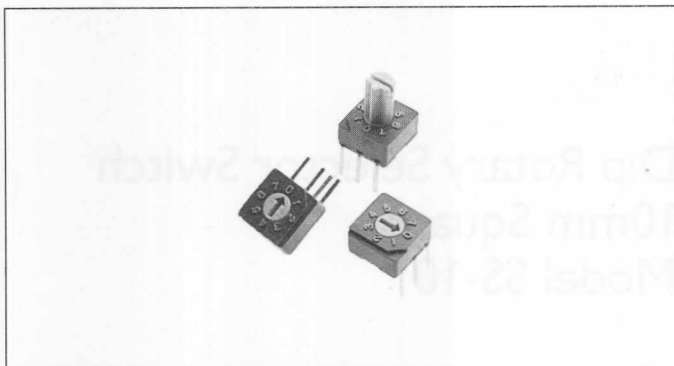
	Top setting	Side setting
Terminal Pin Layout (Bottom view)	<p>Real code</p>  <p>Complementary code</p> 	<p>Real code</p>  <p>Complementary code</p> 
P.C.B. Dimensions (Bottom View)		

10mm Dip Rotary Code Switch Models S-1000, S-2000

PHILIPS

Philips Part Number	Model	Shaft	Code	Adjust	MPQ
S-2010A	DECIMAL	WITHOUT KNOB	REAL	TOP	50
S-2110	DECIMAL	WITH KNOB	REAL	TOP	50
S-2011A	DECIMAL	WITHOUT KNOB	REAL	SIDE	50
S-2111	DECIMAL	WITH KNOB	REAL	SIDE	50
S-2030	DECIMAL	WITHOUT KNOB	COMPLEMENTARY	TOP	50
S-2130	DECIMAL	WITH KNOB	COMPLEMENTARY	TOP	50
S-2031A	DECIMAL	WITHOUT KNOB	COMPLEMENTARY	SIDE	50
S-2131	DECIMAL	WITH KNOB	COMPLEMENTARY	SIDE	50
S-1010A	HEXADECIMAL	WITHOUT KNOB	REAL	TOP	50
S-1110	HEXADECIMAL	WITH KNOB	REAL	TOP	50
S-1011A	HEXADECIMAL	WITHOUT KNOB	REAL	SIDE	50
S-1111	HEXADECIMAL	WITH KNOB	REAL	SIDE	50
S-1030A	HEXADECIMAL	WITHOUT KNOB	COMPLEMENTARY	TOP	50
S-1130	HEXADECIMAL	WITH KNOB	COMPLEMENTARY	TOP	50
S-1031A	HEXADECIMAL	WITHOUT KNOB	COMPLEMENTARY	SIDE	50
S-1131	HEXADECIMAL	WITH KNOB	COMPLEMENTARY	SIDE	50

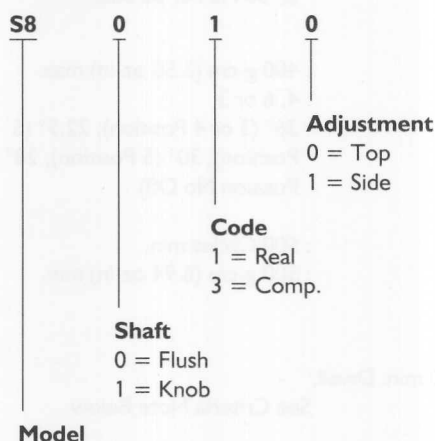
FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Features

- Octal to Binary
- Top or Side Adjust
- O Ring Sealed for Automatic Processing

Part Number



Marking

Units Marked With Two Digit Date Code, Full Part Number and Switch Position Marks

Packaging

Bulk Pack

Specifications

General

Operating Temp. Range : -25°C TO +70°C
Storage Temp. Range : -25°C TO +70°C
Sealing Method : O Ring Sealed

Electrical

Contact Rating
Non-Switching : 100 mA @ 50 VDC max.
Switching : 100 mA @ 5 VDC max.
Contact Resistance : 100 mΩ max. @ 1KHz., 20 mV
Insulation Resistance : 1000 MΩ min. 100 VDC
Dielectric Strength : 1 mA max. 250 VAC
@ 50 Hz For 60 Sec.

Mechanical

Shaft Torque : 200 g-cm (5 Oz-in) max.
Number Of Positions : 8
Step Angle : 45°
Rotational Life : 10,000 Steps min.
Terminal Strength : 1.0 Kg. (2.2 lbs.) min.
Solderability : 75% Coverage min., 235°C for 2±0.5 Secs.

Environmental (MIL-STD-202)

Mechanical Shock:

(50g, 11mS, Sawtooth, 6 Axes, 3 Cycles)

Contact Bounce 0.1 mS max.

Vibration:

(10g or .030 DA, 10 to 500 Hz. 2 Hrs., 3 axes)

Contact Bounce 0.1 mS max.

Thermal Shock:

(-25°C to 70°C, 30 min. Dwell, 5 cycles)

See Criteria Note Below

Humidity:

(90-95% RH, 40°C, 240 Hrs.)

See Criteria Note Below

High Temp. Exposure:

(70°C for 96 Hrs.)

See Criteria Note Below

Low Temp. Storage:

(-25°C for 96 Hrs.)

See Criteria Note Below

Rotational Life:

(10,000 Steps @ 0 Load or 100 mA, 5 VDC)

See Criteria Note Below

Soldering Heat:

(260°C, 10 Sec.)

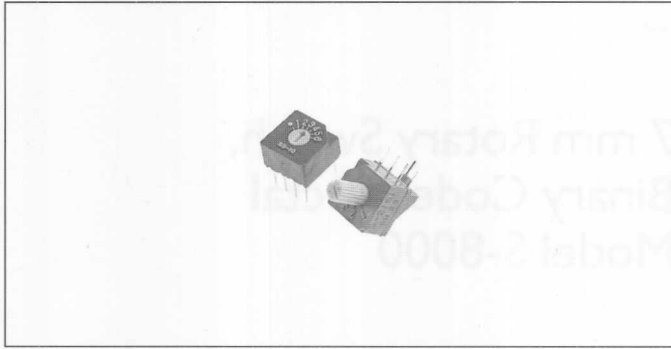
See Criteria Note Below

Criteria Note:

Contact Resistance Not Greater Than 100 mΩ
Insulation Resistance Not Less Than 100 MΩ (10 MΩ for Humidity)
Shaft Torque Not Greater Than 200g-CM
No Mechanical Damage

Dip Rotary Selector Switch Model SS-10

PHILIPS



Dip Rotary Selector Switch 10mm Square Model SS-10

Features

- Sealed to Allow for Automatic Processing
- Rotary Action for Easy Setting and Stability
- Contact Action Self Cleaning

Part Number

SS-10-	1	6	N	P	-L
					Shaft Type L = Knob None = Flush
				Adjustment P = Top S = Side	
			Contact Timing N = Non-Shorting S = Shorting (1 Pole, 5 Contacts; 1 Pole, 6 Contacts without off)		
		No. of Contacts (Throws) 3 = 3 Contacts (Available on 2 Pole only) 4 = 4 Contacts (Available on 1 Pole only) 6 = 6 Contacts (Available on 1 Pole only) 5 = 5 Contacts (Available on 1 Pole only)			
	No. of Poles 1 = 1 Pole 2 = 2 Poles				

Model

Marking

Units Marked With Two Digit Date Code, Full Part Number and Switch Position Marks

Packaging

Bulk Pack

Specifications

General

Operating Temp. Range	: -10°C TO +60°C
Storage Temp. Range	: -25°C TO +70°C
Sealing Method	: O Ring Sealed

Electrical

Contact Rating	: 100 mA @ 50 VDC max.
Non-Switching Switching	: 100 mA @ 5 VDC max.
Contact Timing	: Non Shorting
Contact Resistance	: 100 mΩ max. @ 1KHz., 20 mV
Insulation Resistance	: 100 MΩ min. 100 VDC
Dielectric Strength	: 1 mA max. 300 VAC @ 50 Hz For 60 Sec.

Mechanical

Shaft Torque	: 400 g-cm (5.56 oz-in) max.
Number Of Positions	: 4, 6 or 3
Step Angle	: 36° (3 or 4 Position), 22.5° (6 Position), 30° (5 Position), 28° (6 Position No Off)

Rotational Life	: 500 Cycles min.
Stop Strength	: 500 g-cm (6.94 oz-in) min.

Environmental

Thermal Shock:

(-10°C to +60°C, 30 min. Dwell, 5 cycles) See Criteria Note Below

Humidity:

(90 - 95% RH, 40°C, 240 Hrs.) See Criteria Note Below

Low Temp. Storage:

(-25°C, 1 Hr.) See Criteria Note Below

High Temp. Storage:

(60°C, 96 Hrs.) See Criteria Note Below

Soldering Heat:

(260°C, 10 Sec) See Criteria Note Below

Mechanical Shock:

(50 g, 11 mS, Sawtooth, 6 Axes, 3 Cycles) Contact Bounce 0.1 mS Max.

Vibration:

(10 g, .060 DA, 10 to 200 Hz, 2 Hrs. 3 Axes) Contact Bounce 0.1 mS Max.

Immersion:

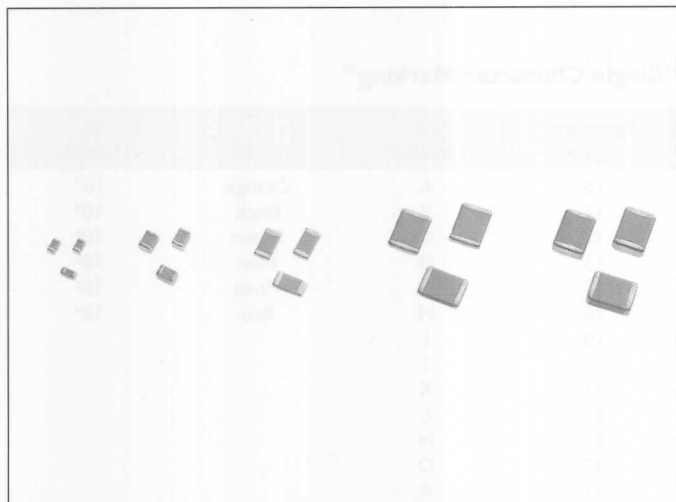
Fluorocarbon Liquid, 85°C, 1 min.

No Leaks

Criteria Note:

Contact Resistance Not Greater Than 100 mΩ
Insulation Resistance Not Less Than 100 MΩ (10 MΩ Humidity)
Shaft Torque Not Greater Than 400g-cm
No Mechanical Damage

FOR ADDITIONAL INFORMATION REFER TO PHILIPS' TRIMMERS, SWITCHES, AND CONTROL POTENTIOMETERS CATALOG.



Surface Mount Ceramic Multilayer Capacitors General Purpose and High Voltage Series

Features

- Superior Volumetric Efficiency
- Excellent for High Speed Automated Assembly
- Voltage Ranges from 25 to 500 VDC
- Four Standard Dielectric Materials: NPO, X7R, Z5U & Y5V
- Available in sizes 0603, 0805, 1206, 1210, 1812 & 2220

Part Number

- See Table 1

Marking

Marking available on sizes 0805 and larger. See table 2 for marking code key.

- Single Character Alphanumeric Color Code:
The character designates two significant digits of capacitance, color code designates the multiplier of capacitance in picofarads
- Two Character Code:
The alpha identifier designates two significant digits of capacitance, the numeric identifier designates the multiplier of capacitance in picofarads.
- Manufacturer Code:
The manufacturer code designates the Philips Components logo for SMD product

Packaging

Available on 7" or 13" Tape & Reel. 0603 and 0805 size also available in Bulk Case Cassette.

Terminations Available

Palladium - Silver: Ag/Pd
Nickel Barrier, 100% Tin: Ni/Sn
Nickel Barrier, Tin/Lead: Ni/Sn - Pb

Table 1

Part Number

1206	CG	102	J	9	B	B	0
Size Code (L x W)	Material	Capacitance (pF) 102 = 1,000 pF i.e. the third digit signifies the number of zeros.	Tolerance F = $\pm 1\%$ G = $\pm 2\%$ B = 0.1 pF C = ± 0.25 pF D = ± 0.5 pF J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z = $+80\%/-20\%$	Voltage 7 = 16V 8 = 25V 9 = 50V 0 = 100V B = 200V D = 500V	Termination A Ag/Pd B Ni/Sn C Ni/Sn-Pb	Packaging Type B T&R 7" Reel - Blister D T&R 13" Reel - Blister 2 T&R 7" Reel - Paper 3 T&R 13" Reel - Paper P Bulk Cassette	Marking 0 No Mark 1 1 Character 2 2 Character 5 Logo
0603	CG C0G, C0K						
0805	2R X7R						
1206	2F Y5V						
1210	2E Z5U						
1812							
2220							

Note: Compact series also available. Please refer to Data Handbook PA06-A.

Electrical Parameters

Capacitance Range:

Material	Voltage				
	25V	50V	100V	200V	500V
C0G	-	0.47 pF to 5600 pF	0.47 pF to 4700 pF	10 pF to 1500 pF	10 pF to 1000 pF
X7R	0.01 uF to 0.22 μ F	100 pF to 0.47 μ F	180 pF to 0.15 μ F	180 pF to 0.1 μ F	470 pF to 0.015 μ F
Z5U	-	0.01 μ F to 1 μ F	-	-	-
Y5V	4.7 μ F to 1 μ F	2.2 nF to 1 μ F	-	-	-

Capacitance Tolerance:

C0K & C0G: ± 0.25 pF, ± 0.5 pF, $\pm 5\%$ & $\pm 10\%$
X7R: $\pm 5\%$, $\pm 10\%$ & $\pm 20\%$
Z5U & Y5V: $\pm 20\%$ & $+80\%/-20\%$

Temperature Characteristics:

C0G: 0 ± 30 ppm/ $^{\circ}$ C, -55° C to $+125^{\circ}$ C
C0K: 0 ± 150 ppm/ $^{\circ}$ C, -55° C to $+125^{\circ}$ C
X7R: $\pm 15\%$, -55° C to $+125^{\circ}$ C
Z5U: $+22\%$ to -56% , $+10^{\circ}$ C to $+85^{\circ}$ C
Y5V: $+22\%$ to -56% , $+30^{\circ}$ C to $+85^{\circ}$ C

Surface Mount Ceramic Multilayer Capacitors General Purpose and High Voltage Series

PHILIPS

Table 2 Marking

“Two Character Marking”

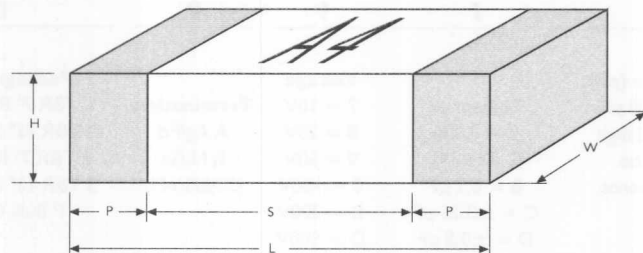
Significant Figure	Alpha Identifier	Significant Figure	Alpha Identifier
1.0	A	5.1	T
1.1	B	5.6	U
1.2	C	6.2	V
1.3	D	6.8	W
1.5	E	7.5	X
1.6	F	8.2	Y
1.8	G	9.1	Z
2.0	H	2.5	a
2.2	J	3.5	b
2.4	K	4.0	d
2.7	L	4.5	e
3.0	M	5.0	f
3.3	N	6.0	m
3.6	P	7.0	n
3.9	Q	8.0	t
4.3	R	9.0	y
4.7	S		
Numeric Character	Decimal Multiplier	Numeric Character	Decimal Multiplier
0	10 ⁰	5	10 ⁵
1	10 ¹	6	10 ⁶
2	10 ²	7	10 ⁷
3	10 ³	8	10 ⁸
4	10 ⁴	9	10 ⁻¹

“Single Character Marking”

Significant Figure	Alpha Identifier	Color	Multiplier
10	A	Orange	10 ⁻¹
11	B	Black	10 ⁰
12	C	Green	10 ¹
13	D	Blue	10 ²
15	E	Violet	10 ³
16	H	Red	10 ⁴
18	I		
20	J		
22	K		
24	L		
27	N		
30	O		
33	R		
36	S		
39	T		
43	V		
47	W		
51	X		
56	Y		
62	Z		
68	3		
75	4		
82	7		
91	9		

CMC Case Size Dimensions/Millimeters (Inches)

Case Size	Length (L)	Width (W)	Height (H)		Termination Width (P)		Spacing (S) min.
			min.	max.	min.	max.	
0603	1.6 ± 0.10 (0.063 ± 0.004)	0.80 ± 0.10 (0.032 ± 0.004)	0.70 (0.028)	0.90 (0.036)	0.25 (0.010)	0.65 (0.026)	0.40 (0.016)
0805	2.0 ± 0.10 (0.079 ± 0.004)	1.25 ± 0.10 (0.049 ± 0.004)	0.51 (0.021)	1.30 (0.052)	0.25 (0.010)	0.75 (0.030)	0.55 (0.022)
1206	3.2 ± 0.15 (0.126 ± 0.006)	1.6 ± 0.15 (0.063 ± 0.006)	0.51 (0.021)	1.60 (0.064)	0.25 (0.010)	0.75 (0.030)	1.40 (0.056)
1210	3.2 ± 0.20 (0.126 ± 0.008)	2.5 ± 0.20 (0.098 ± 0.008)	0.51 (0.021)	1.80 (0.072)	0.25 (0.010)	0.75 (0.030)	1.40 (0.056)
1812	4.5 ± 0.20 (0.177 ± 0.008)	3.2 ± 0.20 (0.126 ± 0.008)	0.51 (0.021)	1.80 (0.072)	0.25 (0.010)	0.75 (0.030)	2.20 (0.088)
2220	5.7 ± 0.20 (0.224 ± 0.008)	5.0 ± 0.20 (0.197 ± 0.008)	0.51 (0.021)	1.80 (0.072)	0.25 (0.010)	0.75 (0.030)	2.9 (0.114)



FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.47 pF	50	±.25 pF	C0K	0603CG478C9B20	Tape & Reel
0.56 pF	50	±.25 pF	C0K	0603CG568C9B20	Tape & Reel
0.68 pF	50	±.25 pF	C0K	0603CG688C9B20	Tape & Reel
0.82 pF	50	±.25 pF	C0K	0603CG828C9B20	Tape & Reel
1.0 pF	50	±.25 pF	C0K	0603CG109C9B20	Tape & Reel
1.2 pF	50	±.25 pF	C0K	0603CG129C9B20	Tape & Reel
1.5 pF	50	±.25 pF	C0K	0603CG159C9B20	Tape & Reel
1.8 pF	50	±.25 pF	C0K	0603CG189C9B20	Tape & Reel
2.2 pF	50	±.25 pF	C0K	0603CG229C9B20	Tape & Reel
2.7 pF	50	±.25 pF	C0K	0603CG279C9B20	Tape & Reel
3.3 pF	50	±.25 pF	C0K	0603CG339C9B20	Tape & Reel
3.9 pF	50	±.25 pF	C0K	0603CG399C9B20	Tape & Reel
4.7 pF	50	±.25 pF	C0K	0603CG479C9B20	Tape & Reel
5.6 pF	50	±.50 pF	C0K	0603CG569D9B20	Tape & Reel
6.8 pF	50	±.50 pF	C0K	0603CG689D9B20	Tape & Reel
8.2 pF	50	±.50 pF	C0K	0603CG829D9B20	Tape & Reel
10 pF	50	±5%	C0G	0603CG100J9B20	Tape & Reel
10 pF	50	±10%	C0G	0603CG100K9B20	Tape & Reel
12 pF	50	±5%	C0G	0603CG120J9B20	Tape & Reel
12 pF	50	±10%	C0G	0603CG120K9B20	Tape & Reel
15 pF	50	±5%	C0G	0603CG150J9B20	Tape & Reel
15 pF	50	±10%	C0G	0603CG150K9B20	Tape & Reel
18 pF	50	±5%	C0G	0603CG180J9B20	Tape & Reel
18 pF	50	±10%	C0G	0603CG180K9B20	Tape & Reel
22 pF	50	±5%	C0G	0603CG220J9B20	Tape & Reel
22 pF	50	±10%	C0G	0603CG220K9B20	Tape & Reel
27 pF	50	±5%	C0G	0603CG270J9B20	Tape & Reel
27 pF	50	±10%	C0G	0603CG270K9B20	Tape & Reel
33 pF	50	±5%	C0G	0603CG330J9B20	Tape & Reel
33 pF	50	±10%	C0G	0603CG330K9B20	Tape & Reel
39 pF	50	±5%	C0G	0603CG390J9B20	Tape & Reel
39 pF	50	±10%	C0G	0603CG390K9B20	Tape & Reel
47 pF	50	±5%	C0G	0603CG470J9B20	Tape & Reel
47 pF	50	±10%	C0G	0603CG470K9B20	Tape & Reel
56 pF	50	±5%	C0G	0603CG560J9B20	Tape & Reel
56 pF	50	±10%	C0G	0603CG560K9B20	Tape & Reel
68 pF	50	±5%	C0G	0603CG680J9B20	Tape & Reel
68 pF	50	±10%	C0G	0603CG680K9B20	Tape & Reel
82 pF	50	±5%	C0G	0603CG820J9B20	Tape & Reel
82 pF	50	±10%	C0G	0603CG820K9B20	Tape & Reel
100 pF	50	±5%	C0G	0603CG101J9B20	Tape & Reel
100 pF	50	±10%	C0G	0603CG101K9B20	Tape & Reel
120 pF	50	±5%	C0G	0603CG121J9B20	Tape & Reel
120 pF	50	±10%	C0G	0603CG121K9B20	Tape & Reel
150 pF	50	±5%	C0G	0603CG151J9B20	Tape & Reel
150 pF	50	±10%	C0G	0603CG151K9B20	Tape & Reel
180 pF	50	±5%	C0G	0603CG181J9B20	Tape & Reel
180 pF	50	±10%	C0G	0603CG181K9B20	Tape & Reel
220 pF	50	±5%	C0G	0603CG221J9B20	Tape & Reel
220 pF	50	±10%	C0G	0603CG221K9B20	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 0603 Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
270 pF	50	±5%	C0G	0603CG271J9B20	Tape & Reel
270 pF	50	±10%	C0G	0603CG271K9B20	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	25	$\pm 10\%$	X7R	06032R103K8B20	Tape & Reel
0.010 μ F	25	$\pm 20\%$	X7R	06032R103M8B20	Tape & Reel
0.012 μ F	25	$\pm 10\%$	X7R	06032R123K8B20	Tape & Reel
0.012 μ F	25	$\pm 20\%$	X7R	06032R123M8B20	Tape & Reel
0.015 μ F	25	$\pm 10\%$	X7R	06032R153K8B20	Tape & Reel
0.015 μ F	25	$\pm 20\%$	X7R	06032R153M8B20	Tape & Reel
0.018 μ F	25	$\pm 10\%$	X7R	06032R183K8B20	Tape & Reel
0.018 μ F	25	$\pm 20\%$	X7R	06032R183M8B20	Tape & Reel
0.022 μ F	25	$\pm 10\%$	X7R	06032R223K8B20	Tape & Reel
0.022 μ F	25	$\pm 20\%$	X7R	06032R223M8B20	Tape & Reel
100 pF	50	$\pm 10\%$	X7R	06032R101K9B20	Tape & Reel
100 pF	50	$\pm 20\%$	X7R	06032R101M9B20	Tape & Reel
120 pF	50	$\pm 10\%$	X7R	06032R121K9B20	Tape & Reel
120 pF	50	$\pm 20\%$	X7R	06032R121M9B20	Tape & Reel
150 pF	50	$\pm 10\%$	X7R	06032R151K9B20	Tape & Reel
150 pF	50	$\pm 20\%$	X7R	06032R151M9B20	Tape & Reel
180 pF	50	$\pm 10\%$	X7R	06032R181K9B20	Tape & Reel
180 pF	50	$\pm 20\%$	X7R	06032R181M9B20	Tape & Reel
220 pF	50	$\pm 10\%$	X7R	06032R221K9B20	Tape & Reel
220 pF	50	$\pm 20\%$	X7R	06032R221M9B20	Tape & Reel
270 pF	50	$\pm 10\%$	X7R	06032R271K9B20	Tape & Reel
270 pF	50	$\pm 20\%$	X7R	06032R271M9B20	Tape & Reel
330 pF	50	$\pm 10\%$	X7R	06032R331K9B20	Tape & Reel
330 pF	50	$\pm 20\%$	X7R	06032R331M9B20	Tape & Reel
390 pF	50	$\pm 10\%$	X7R	06032R391K9B20	Tape & Reel
390 pF	50	$\pm 20\%$	X7R	06032R391M9B20	Tape & Reel
470 pF	50	$\pm 10\%$	X7R	06032R471K9B20	Tape & Reel
470 pF	50	$\pm 20\%$	X7R	06032R471M9B20	Tape & Reel
560 pF	50	$\pm 10\%$	X7R	06032R561K9B20	Tape & Reel
560 pF	50	$\pm 20\%$	X7R	06032R561M9B20	Tape & Reel
680 pF	50	$\pm 10\%$	X7R	06032R681K9B20	Tape & Reel
680 pF	50	$\pm 20\%$	X7R	06032R681M9B20	Tape & Reel
820 pF	50	$\pm 10\%$	X7R	06032R821K9B20	Tape & Reel
820 pF	50	$\pm 20\%$	X7R	06032R821M9B20	Tape & Reel
1000 pF	50	$\pm 10\%$	X7R	06032R102K9B20	Tape & Reel
1000 pF	50	$\pm 20\%$	X7R	06032R102M9B20	Tape & Reel
1200 pF	50	$\pm 10\%$	X7R	06032R122K9B20	Tape & Reel
1200 pF	50	$\pm 20\%$	X7R	06032R122M9B20	Tape & Reel
1500 pF	50	$\pm 10\%$	X7R	06032R152K9B20	Tape & Reel
1500 pF	50	$\pm 20\%$	X7R	06032R152M9B20	Tape & Reel
1800 pF	50	$\pm 10\%$	X7R	06032R182K9B20	Tape & Reel
1800 pF	50	$\pm 20\%$	X7R	06032R182M9B20	Tape & Reel
2200 pF	50	$\pm 10\%$	X7R	06032R222K9B20	Tape & Reel
2200 pF	50	$\pm 20\%$	X7R	06032R222M9B20	Tape & Reel
2700 pF	50	$\pm 10\%$	X7R	06032R272K9B20	Tape & Reel
2700 pF	50	$\pm 20\%$	X7R	06032R272M9B20	Tape & Reel
3300 pF	50	$\pm 10\%$	X7R	06032R332K9B20	Tape & Reel
3300 pF	50	$\pm 20\%$	X7R	06032R332M9B20	Tape & Reel
3900 pF	50	$\pm 10\%$	X7R	06032R392K9B20	Tape & Reel
3900 pF	50	$\pm 20\%$	X7R	06032R392M9B20	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

PHILIPS

Size: 0603 Dielectric: X7R

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
4700 pF	50	±10%	X7R	06032R472K9B20	Tape & Reel
4700 pF	50	±20%	X7R	06032R472M9B20	Tape & Reel
5600 pF	50	±10%	X7R	06032R562K9B20	Tape & Reel
5600 pF	50	±20%	X7R	06032R562M9B20	Tape & Reel
6800 pF	50	±10%	X7R	06032R682K9B20	Tape & Reel
6800 pF	50	±20%	X7R	06032R682M9B20	Tape & Reel
8200 pF	50	±10%	X7R	06032R822K9B20	Tape & Reel
8200 pF	50	±20%	X7R	06032R822M9B20	Tape & Reel
0.010 µF	50	±10%	X7R	06032R103K9B20	Tape & Reel
0.010 µF	50	±20%	X7R	06032R103M9B20	Tape & Reel
0.012 µF	50	±10%	X7R	06032R123K9B20	Tape & Reel
0.012 µF	50	±20%	X7R	06032R123M9B20	Tape & Reel
0.015 µF	50	±10%	X7R	06032R153K9B20	Tape & Reel
0.015 µF	50	±20%	X7R	06032R153M9B20	Tape & Reel
0.018 µF	50	±10%	X7R	06032R183K9B20	Tape & Reel
0.018 µF	50	±20%	X7R	06032R183M9B20	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	25	$\pm 20\%$	Y5V	06032F103M8B20	Tape & Reel
0.010 μ F	25	+80%/ -20%	Y5V	06032F103Z8B20	Tape & Reel
0.012 μ F	25	$\pm 20\%$	Y5V	06032F123M8B20	Tape & Reel
0.012 μ F	25	+80%/ -20%	Y5V	06032F123Z8B20	Tape & Reel
0.015 μ F	25	$\pm 20\%$	Y5V	06032F153M8B20	Tape & Reel
0.015 μ F	25	+80%/ -20%	Y5V	06032F153Z8B20	Tape & Reel
0.018 μ F	25	$\pm 20\%$	Y5V	06032F183M8B20	Tape & Reel
0.018 μ F	25	+80%/ -20%	Y5V	06032F183Z8B20	Tape & Reel
0.022 μ F	25	$\pm 20\%$	Y5V	06032F223M8B20	Tape & Reel
0.022 μ F	25	+80%/ -20%	Y5V	06032F223Z8B20	Tape & Reel
0.027 μ F	25	$\pm 20\%$	Y5V	06032F273M8B20	Tape & Reel
0.027 μ F	25	+80%/ -20%	Y5V	06032F273Z8B20	Tape & Reel
0.033 μ F	25	$\pm 20\%$	Y5V	06032F333M8B20	Tape & Reel
0.033 μ F	25	+80%/ -20%	Y5V	06032F333Z8B20	Tape & Reel
0.039 μ F	25	$\pm 20\%$	Y5V	06032F393M8B20	Tape & Reel
0.039 μ F	25	+80%/ -20%	Y5V	06032F393Z8B20	Tape & Reel
0.047 μ F	25	$\pm 20\%$	Y5V	06032F473M8B20	Tape & Reel
0.047 μ F	25	+80%/ -20%	Y5V	06032F473Z8B20	Tape & Reel
0.056 μ F	25	$\pm 20\%$	Y5V	06032F563M8B20	Tape & Reel
0.056 μ F	25	+80%/ -20%	Y5V	06032F563Z8B20	Tape & Reel
0.068 μ F	25	$\pm 20\%$	Y5V	06032F683M8B20	Tape & Reel
0.068 μ F	25	+80%/ -20%	Y5V	06032F683Z8B20	Tape & Reel
0.082 μ F	25	$\pm 20\%$	Y5V	06032F823M8B20	Tape & Reel
0.082 μ F	25	+80%/ -20%	Y5V	06032F823Z8B20	Tape & Reel
0.1 μ F	25	$\pm 20\%$	Y5V	06032F104M8B20	Tape & Reel
0.1 μ F	25	+80%/ -20%	Y5V	06032F104Z8B20	Tape & Reel
0.010 μ F	50	$\pm 20\%$	Y5V	06032F103M9B20	Tape & Reel
0.010 μ F	50	+80%/ -20%	Y5V	06032F103Z9B20	Tape & Reel
0.012 μ F	50	$\pm 20\%$	Y5V	06032F123M9B20	Tape & Reel
0.012 μ F	50	+80%/ -20%	Y5V	06032F123Z9B20	Tape & Reel
0.015 μ F	50	$\pm 20\%$	Y5V	06032F153M9B20	Tape & Reel
0.015 μ F	50	+80%/ -20%	Y5V	06032F153Z9B20	Tape & Reel
0.018 μ F	50	$\pm 20\%$	Y5V	06032F183M9B20	Tape & Reel
0.018 μ F	50	+80%/ -20%	Y5V	06032F183Z9B20	Tape & Reel
0.022 μ F	50	$\pm 20\%$	Y5V	06032F223M9B20	Tape & Reel
0.022 μ F	50	+80%/ -20%	Y5V	06032F223Z9B20	Tape & Reel
0.027 μ F	50	$\pm 20\%$	Y5V	06032F273M9B20	Tape & Reel
0.027 μ F	50	+80%/ -20%	Y5V	06032F273Z9B20	Tape & Reel
0.033 μ F	50	$\pm 20\%$	Y5V	06032F333M9B20	Tape & Reel
0.033 μ F	50	+80%/ -20%	Y5V	06032F333Z9B20	Tape & Reel
0.039 μ F	50	$\pm 20\%$	Y5V	06032F393M9B20	Tape & Reel
0.039 μ F	50	+80%/ -20%	Y5V	06032F393Z9B20	Tape & Reel
0.047 μ F	50	$\pm 20\%$	Y5V	06032F473M9B20	Tape & Reel
0.047 μ F	50	+80%/ -20%	Y5V	06032F473Z9B20	Tape & Reel
0.056 μ F	50	$\pm 20\%$	Y5V	06032F563M9B20	Tape & Reel
0.056 μ F	50	+80%/ -20%	Y5V	06032F563Z9B20	Tape & Reel
0.068 μ F	50	$\pm 20\%$	Y5V	06032F683M9B20	Tape & Reel
0.068 μ F	50	+80%/ -20%	Y5V	06032F683Z9B20	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 0805 Dielectric: C0K, C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.47 pF	50	±.25 pF	C0K	0805CG478C9BB2	Tape & Reel
0.56 pF	50	±.25 pF	C0K	0805CG568C9BB2	Tape & Reel
0.68 pF	50	±.25 pF	C0K	0805CG688C9BB2	Tape & Reel
0.82 pF	50	±.25 pF	C0K	0805CG828C9BB2	Tape & Reel
1.0 pF	50	±.25 pF	C0K	0805CG109C9BB2	Tape & Reel
1.2 pF	50	±.25 pF	C0K	0805CG129C9BB2	Tape & Reel
1.5 pF	50	±.25 pF	C0K	0805CG159C9BB2	Tape & Reel
1.8 pF	50	±.25 pF	C0K	0805CG189C9BB2	Tape & Reel
2.2 pF	50	±.25 pF	C0K	0805CG229C9BB2	Tape & Reel
2.7 pF	50	±.25 pF	C0K	0805CG279C9BB2	Tape & Reel
3.3 pF	50	±.25 pF	C0K	0805CG339C9BB2	Tape & Reel
3.9 pF	50	±.25 pF	C0K	0805CG399C9BB2	Tape & Reel
4.7 pF	50	±.25 pF	C0K	0805CG479C9BB2	Tape & Reel
5.6 pF	50	±.50 pF	C0K	0805CG569D9BB2	Tape & Reel
6.8 pF	50	±.50 pF	C0K	0805CG689D9BB2	Tape & Reel
8.2 pF	50	±.50 pF	C0K	0805CG829D9BB2	Tape & Reel
10 pF	50	±5%	C0G	0805CG100J9BB2	Tape & Reel
10 pF	50	±10%	C0G	0805CG100K9BB2	Tape & Reel
12 pF	50	±5%	C0G	0805CG120J9BB2	Tape & Reel
12 pF	50	±10%	C0G	0805CG120K9BB2	Tape & Reel
15 pF	50	±5%	C0G	0805CG150J9BB2	Tape & Reel
15 pF	50	±10%	C0G	0805CG150K9BB2	Tape & Reel
18 pF	50	±5%	C0G	0805CG180J9BB2	Tape & Reel
18 pF	50	±10%	C0G	0805CG180K9BB2	Tape & Reel
22 pF	50	±5%	C0G	0805CG220J9BB2	Tape & Reel
22 pF	50	±10%	C0G	0805CG220K9BB2	Tape & Reel
27 pF	50	±5%	C0G	0805CG270J9BB2	Tape & Reel
27 pF	50	±10%	C0G	0805CG270K9BB2	Tape & Reel
33 pF	50	±5%	C0G	0805CG370J9BB2	Tape & Reel
33 pF	50	±10%	C0G	0805CG370K9BB2	Tape & Reel
39 pF	50	±5%	C0G	0805CG390J9BB2	Tape & Reel
39 pF	50	±10%	C0G	0805CG390K9BB2	Tape & Reel
47 pF	50	±5%	C0G	0805CG470J9BB2	Tape & Reel
47 pF	50	±10%	C0G	0805CG470K9BB2	Tape & Reel
56 pF	50	±5%	C0G	0805CG560J9BB2	Tape & Reel
56 pF	50	±10%	C0G	0805CG560K9BB2	Tape & Reel
68 pF	50	±5%	C0G	0805CG680J9BB2	Tape & Reel
68 pF	50	±10%	C0G	0805CG680K9BB2	Tape & Reel
82 pF	50	±5%	C0G	0805CG820J9BB2	Tape & Reel
82 pF	50	±10%	C0G	0805CG820K9BB2	Tape & Reel
100 pF	50	±5%	C0G	0805CG101J9BB2	Tape & Reel
100 pF	50	±10%	C0G	0805CG101K9BB2	Tape & Reel
120 pF	50	±5%	C0G	0805CG121J9BB2	Tape & Reel
120 pF	50	±10%	C0G	0805CG121K9BB2	Tape & Reel
150 pF	50	±5%	C0G	0805CG151J9BB2	Tape & Reel
150 pF	50	±10%	C0G	0805CG151K9BB2	Tape & Reel
180 pF	50	±5%	C0G	0805CG181J9BB2	Tape & Reel
180 pF	50	±10%	C0G	0805CG181K9BB2	Tape & Reel
220 pF	50	±5%	C0G	0805CG221J9BB2	Tape & Reel
220 pF	50	±10%	C0G	0805CG221K9BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
270 pF	50	±5%	C0G	0805CG271J9BB2	Tape & Reel
270 pF	50	±10%	C0G	0805CG271K9BB2	Tape & Reel
330 pF	50	±5%	C0G	0805CG331J9BB2	Tape & Reel
330 pF	50	±10%	C0G	0805CG331K9BB2	Tape & Reel
390 pF	50	±5%	C0G	0805CG391J9BB2	Tape & Reel
390 pF	50	±10%	C0G	0805CG391K9BB2	Tape & Reel
470 pF	50	±5%	C0G	0805CG471J9BB2	Tape & Reel
470 pF	50	±10%	C0G	0805CG471K9BB2	Tape & Reel
560 pF	50	±5%	C0G	0805CG561J9BB2	Tape & Reel
560 pF	50	±10%	C0G	0805CG561K9BB2	Tape & Reel
680 pF	50	±5%	C0G	0805CG681J9BB2	Tape & Reel
680 pF	50	±10%	C0G	0805CG681K9BB2	Tape & Reel
820 pF	50	±5%	C0G	0805CG821J9BB2	Tape & Reel
820 pF	50	±10%	C0G	0805CG821K9BB2	Tape & Reel
1000 pF	50	±5%	C0G	0805CG102J9BB2	Tape & Reel
1000 pF	50	±10%	C0G	0805CG102K9BB2	Tape & Reel
0.47 pF	100	±.25 pF	C0K	0805CG478C0BB2	Tape & Reel
0.56 pF	100	±.25 pF	C0K	0805CG568C0BB2	Tape & Reel
0.68 pF	100	±.25 pF	C0K	0805CG688C0BB2	Tape & Reel
0.82 pF	100	±.25 pF	C0K	0805CG828C0BB2	Tape & Reel
1.0 pF	100	±.25 pF	C0K	0805CG109C0BB2	Tape & Reel
1.2 pF	100	±.25 pF	C0K	0805CG129C0BB2	Tape & Reel
1.5 pF	100	±.25 pF	C0K	0805CG159C0BB2	Tape & Reel
1.8 pF	100	±.25 pF	C0K	0805CG189C0BB2	Tape & Reel
2.2 pF	100	±.25 pF	C0K	0805CG229C0BB2	Tape & Reel
2.7 pF	100	±.25 pF	C0K	0805CG279C0BB2	Tape & Reel
3.3 pF	100	±.25 pF	C0K	0805CG339C0BB2	Tape & Reel
3.9 pF	100	±.25 pF	C0K	0805CG399C0BB2	Tape & Reel
4.7 pF	100	±.25 pF	C0K	0805CG479C0BB2	Tape & Reel
5.6 pF	100	±.50 pF	C0K	0805CG569D0BB2	Tape & Reel
6.8 pF	100	±.50 pF	C0K	0805CG689D0BB2	Tape & Reel
8.2 pF	100	±.50 pF	C0K	0805CG829D0BB2	Tape & Reel
10 pF	100	±5%	C0G	0805CG100J0BB2	Tape & Reel
10 pF	100	±10%	C0G	0805CG100K0BB2	Tape & Reel
12 pF	100	±5%	C0G	0805CG120J0BB2	Tape & Reel
12 pF	100	±10%	C0G	0805CG120K0BB2	Tape & Reel
15 pF	100	±5%	C0G	0805CG150J0BB2	Tape & Reel
15 pF	100	±10%	C0G	0805CG150K0BB2	Tape & Reel
18 pF	100	±5%	C0G	0805CG180J0BB2	Tape & Reel
18 pF	100	±10%	C0G	0805CG180K0BB2	Tape & Reel
22 pF	100	±5%	C0G	0805CG220J0BB2	Tape & Reel
22 pF	100	±10%	C0G	0805CG220K0BB2	Tape & Reel
27 pF	100	±5%	C0G	0805CG270J0BB2	Tape & Reel
27 pF	100	±10%	C0G	0805CG270K0BB2	Tape & Reel
33 pF	100	±5%	C0G	0805CG330J0BB2	Tape & Reel
33 pF	100	±10%	C0G	0805CG330K0BB2	Tape & Reel
39 pF	100	±5%	C0G	0805CG390J0BB2	Tape & Reel
39 pF	100	±10%	C0G	0805CG390K0BB2	Tape & Reel
47 pF	100	±5%	C0G	0805CG470J0BB2	Tape & Reel
47 pF	100	±10%	C0G	0805CG470K0BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

PHILIPS

Size: 0805 Dielectric: C0G

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
56 pF	100	±5%	C0G	0805CG560J0BB2	Tape & Reel
56 pF	100	±10%	C0G	0805CG560K0BB2	Tape & Reel
68 pF	100	±5%	C0G	0805CG680J0BB2	Tape & Reel
68 pF	100	±10%	C0G	0805CG680K0BB2	Tape & Reel
82 pF	100	±5%	C0G	0805CG820J0BB2	Tape & Reel
82 pF	100	±10%	C0G	0805CG820K0BB2	Tape & Reel
100 pF	100	±5%	C0G	0805CG101J0BB2	Tape & Reel
100 pF	100	±10%	C0G	0805CG101K0BB2	Tape & Reel
120 pF	100	±5%	C0G	0805CG121J0BB2	Tape & Reel
120 pF	100	±10%	C0G	0805CG121K0BB2	Tape & Reel
150 pF	100	±5%	C0G	0805CG151J0BB2	Tape & Reel
150 pF	100	±10%	C0G	0805CG151K0BB2	Tape & Reel
180 pF	100	±5%	C0G	0805CG181J0BB2	Tape & Reel
180 pF	100	±10%	C0G	0805CG181K0BB2	Tape & Reel
220 pF	100	±5%	C0G	0805CG221J0BB2	Tape & Reel
220 pF	100	±10%	C0G	0805CG221K0BB2	Tape & Reel
270 pF	100	±5%	C0G	0805CG271J0BB2	Tape & Reel
270 pF	100	±10%	C0G	0805CG271K0BB2	Tape & Reel
330 pF	100	±5%	C0G	0805CG331J0BB2	Tape & Reel
330 pF	100	±10%	C0G	0805CG331K0BB2	Tape & Reel
390 pF	100	±5%	C0G	0805CG391J0BB2	Tape & Reel
390 pF	100	±10%	C0G	0805CG391K0BB2	Tape & Reel
470 pF	100	±5%	C0G	0805CG471J0BB2	Tape & Reel
470 pF	100	±10%	C0G	0805CG471K0BB2	Tape & Reel
560 pF	100	±5%	C0G	0805CG561J0BB2	Tape & Reel
560 pF	100	±10%	C0G	0805CG561K0BB2	Tape & Reel
680 pF	100	±5%	C0G	0805CG681J0BB2	Tape & Reel
680 pF	100	±10%	C0G	0805CG681K0BB2	Tape & Reel
820 pF	100	±5%	C0G	0805CG821J0BB2	Tape & Reel
820 pF	100	±10%	C0G	0805CG821K0BB2	Tape & Reel
10 pF	200	±5%	C0G	0805CG100JBBB0	Tape & Reel
10 pF	200	±10%	C0G	0805CG100KBBB0	Tape & Reel
12 pF	200	±5%	C0G	0805CG120JBBB0	Tape & Reel
12 pF	200	±10%	C0G	0805CG120KBBB0	Tape & Reel
15 pF	200	±5%	C0G	0805CG150JBBB0	Tape & Reel
15 pF	200	±10%	C0G	0805CG150KBBB0	Tape & Reel
18 pF	200	±5%	C0G	0805CG180JBBB0	Tape & Reel
18 pF	200	±10%	C0G	0805CG180KBBB0	Tape & Reel
22 pF	200	±5%	C0G	0805CG220JBBB0	Tape & Reel
22 pF	200	±10%	C0G	0805CG220KBBB0	Tape & Reel
27 pF	200	±5%	C0G	0805CG270JBBB0	Tape & Reel
27 pF	200	±10%	C0G	0805CG270KBBB0	Tape & Reel
33 pF	200	±5%	C0G	0805CG330JBBB0	Tape & Reel
33 pF	200	±10%	C0G	0805CG330KBBB0	Tape & Reel
39 pF	200	±5%	C0G	0805CG390JBBB0	Tape & Reel
39 pF	200	±10%	C0G	0805CG390KBBB0	Tape & Reel
47 pF	200	±5%	C0G	0805CG470JBBB0	Tape & Reel
47 pF	200	±10%	C0G	0805CG470KBBB0	Tape & Reel
56 pF	200	±5%	C0G	0805CG560JBBB0	Tape & Reel
56 pF	200	±10%	C0G	0805CG560KBBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
68 pF	200	±5%	C0G	0805CG680JBBB0	Tape & Reel
68 pF	200	±10%	C0G	0805CG680KBBB0	Tape & Reel
82 pF	200	±5%	C0G	0805CG820JBBB0	Tape & Reel
82 pF	200	±10%	C0G	0805CG820KBBB0	Tape & Reel
100 pF	200	±5%	C0G	0805CG101JBBB0	Tape & Reel
100 pF	200	±10%	C0G	0805CG101KBBB0	Tape & Reel
120 pF	200	±5%	C0G	0805CG121JBBB0	Tape & Reel
120 pF	200	±10%	C0G	0805CG121KBBB0	Tape & Reel
150 pF	200	±5%	C0G	0805CG151JBBB0	Tape & Reel
150 pF	200	±10%	C0G	0805CG151KBBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

PHILIPS

Size: 0805 Dielectric: X7R

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.027 μ F	25	$\pm 10\%$	X7R	08052R273K8BB2	Tape & Reel
0.027 μ F	25	$\pm 20\%$	X7R	08052R273M8BB2	Tape & Reel
0.033 μ F	25	$\pm 10\%$	X7R	08052R333K8BB2	Tape & Reel
0.033 μ F	25	$\pm 20\%$	X7R	08052R333M8BB2	Tape & Reel
0.039 μ F	25	$\pm 10\%$	X7R	08052R393K8BB2	Tape & Reel
0.039 μ F	25	$\pm 20\%$	X7R	08052R393M8BB2	Tape & Reel
0.047 μ F	25	$\pm 10\%$	X7R	08052R473K8BB2	Tape & Reel
0.047 μ F	25	$\pm 20\%$	X7R	08052R473M8BB2	Tape & Reel
0.056 μ F	25	$\pm 10\%$	X7R	08052R563K8BB2	Tape & Reel
0.056 μ F	25	$\pm 20\%$	X7R	08052R563M8BB2	Tape & Reel
0.068 μ F	25	$\pm 10\%$	X7R	08052R683K8BB2	Tape & Reel
0.068 μ F	25	$\pm 20\%$	X7R	08052R683M8BB2	Tape & Reel
0.082 μ F	25	$\pm 10\%$	X7R	08052R823K8BB2	Tape & Reel
0.082 μ F	25	$\pm 20\%$	X7R	08052R823M8BB2	Tape & Reel
0.1 μ F	25	$\pm 10\%$	X7R	08052R104K8BB2	Tape & Reel
0.1 μ F	25	$\pm 20\%$	X7R	08052R104M8BB2	Tape & Reel
180 pF	50	$\pm 10\%$	X7R	08052R181K9BB2	Tape & Reel
180 pF	50	$\pm 20\%$	X7R	08052R181M9BB2	Tape & Reel
220 pF	50	$\pm 10\%$	X7R	08052R221K9BB2	Tape & Reel
220 pF	50	$\pm 20\%$	X7R	08052R221M9BB2	Tape & Reel
270 pF	50	$\pm 10\%$	X7R	08052R271K9BB2	Tape & Reel
270 pF	50	$\pm 20\%$	X7R	08052R271M9BB2	Tape & Reel
330 pF	50	$\pm 10\%$	X7R	08052R331K9BB2	Tape & Reel
330 pF	50	$\pm 20\%$	X7R	08052R331M9BB2	Tape & Reel
390 pF	50	$\pm 10\%$	X7R	08052R391K9BB2	Tape & Reel
390 pF	50	$\pm 20\%$	X7R	08052R391M9BB2	Tape & Reel
470 pF	50	$\pm 10\%$	X7R	08052R471K9BB2	Tape & Reel
470 pF	50	$\pm 20\%$	X7R	08052R471M9BB2	Tape & Reel
560 pF	50	$\pm 10\%$	X7R	08052R561K9BB2	Tape & Reel
560 pF	50	$\pm 20\%$	X7R	08052R561M9BB2	Tape & Reel
680 pF	50	$\pm 10\%$	X7R	08052R681K9BB2	Tape & Reel
680 pF	50	$\pm 20\%$	X7R	08052R681M9BB2	Tape & Reel
820 pF	50	$\pm 10\%$	X7R	08052R821K9BB2	Tape & Reel
820 pF	50	$\pm 20\%$	X7R	08052R821M9BB2	Tape & Reel
1000 pF	50	$\pm 10\%$	X7R	08052R102K9BB2	Tape & Reel
1000 pF	50	$\pm 20\%$	X7R	08052R102M9BB2	Tape & Reel
1200 pF	50	$\pm 10\%$	X7R	08052R122K9BB2	Tape & Reel
1200 pF	50	$\pm 20\%$	X7R	08052R122M9BB2	Tape & Reel
1500 pF	50	$\pm 10\%$	X7R	08052R152K9BB2	Tape & Reel
1500 pF	50	$\pm 20\%$	X7R	08052R152M9BB2	Tape & Reel
1800 pF	50	$\pm 10\%$	X7R	08052R182K9BB2	Tape & Reel
1800 pF	50	$\pm 20\%$	X7R	08052R182M9BB2	Tape & Reel
2200 pF	50	$\pm 10\%$	X7R	08052R222K9BB2	Tape & Reel
2200 pF	50	$\pm 20\%$	X7R	08052R222M9BB2	Tape & Reel
2700 pF	50	$\pm 10\%$	X7R	08052R272K9BB2	Tape & Reel
2700 pF	50	$\pm 20\%$	X7R	08052R272M9BB2	Tape & Reel
3300 pF	50	$\pm 10\%$	X7R	08052R332K9BB2	Tape & Reel
3300 pF	50	$\pm 20\%$	X7R	08052R332M9BB2	Tape & Reel
3900 pF	50	$\pm 10\%$	X7R	08052R392K9BB2	Tape & Reel
3900 pF	50	$\pm 20\%$	X7R	08052R392M9BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
4700 pF	50	±10%	X7R	08052R472K9BB2	Tape & Reel
4700 pF	50	±20%	X7R	08052R472M9BB2	Tape & Reel
5600 pF	50	±10%	X7R	08052R562K9BB2	Tape & Reel
5600 pF	50	±20%	X7R	08052R562M9BB2	Tape & Reel
6800 pF	50	±10%	X7R	08052R682K9BB2	Tape & Reel
6800 pF	50	±20%	X7R	08052R682M9BB2	Tape & Reel
8200 pF	50	±10%	X7R	08052R822K9BB2	Tape & Reel
8200 pF	50	±20%	X7R	08052R822M9BB2	Tape & Reel
0.010 µF	50	±10%	X7R	08052R103K9BB2	Tape & Reel
0.010 µF	50	±20%	X7R	08052R103M9BB2	Tape & Reel
0.012 µF	50	±10%	X7R	08052R123K9BB2	Tape & Reel
0.012 µF	50	±20%	X7R	08052R123M9BB2	Tape & Reel
0.015 µF	50	±10%	X7R	08052R153K9BB2	Tape & Reel
0.015 µF	50	±20%	X7R	08052R153M9BB2	Tape & Reel
0.018 µF	50	±10%	X7R	08052R183K9BB2	Tape & Reel
0.018 µF	50	±20%	X7R	08052R183M9BB2	Tape & Reel
0.022 µF	50	±10%	X7R	08052R223K9BB2	Tape & Reel
0.022 µF	50	±20%	X7R	08052R223M9BB2	Tape & Reel
0.027 µF	50	±10%	X7R	08052R273K9BB2	Tape & Reel
0.027 µF	50	±20%	X7R	08052R273M9BB2	Tape & Reel
0.033 µF	50	±10%	X7R	08052R333K9BB2	Tape & Reel
0.033 µF	50	±20%	X7R	08052R333M9BB2	Tape & Reel
180 pF	100	±10%	X7R	08052R181K0BB0	Tape & Reel
180 pF	100	±20%	X7R	08052R181M0BB0	Tape & Reel
220 pF	100	±10%	X7R	08052R221K0BB0	Tape & Reel
220 pF	100	±20%	X7R	08052R221M0BB0	Tape & Reel
270 pF	100	±10%	X7R	08052R271K0BB0	Tape & Reel
270 pF	100	±20%	X7R	08052R271M0BB0	Tape & Reel
330 pF	100	±10%	X7R	08052R331K0BB0	Tape & Reel
330 pF	100	±20%	X7R	08052R331M0BB0	Tape & Reel
390 pF	100	±10%	X7R	08052R391K0BB0	Tape & Reel
390 pF	100	±20%	X7R	08052R391M0BB0	Tape & Reel
470 pF	100	±10%	X7R	08052R471K0BB0	Tape & Reel
470 pF	100	±20%	X7R	08052R471M0BB0	Tape & Reel
560 pF	100	±10%	X7R	08052R561K0BB0	Tape & Reel
560 pF	100	±20%	X7R	08052R561M0BB0	Tape & Reel
680 pF	100	±10%	X7R	08052R681K0BB0	Tape & Reel
680 pF	100	±20%	X7R	08052R681M0BB0	Tape & Reel
820 pF	100	±10%	X7R	08052R821K0BB0	Tape & Reel
820 pF	100	±20%	X7R	08052R821M0BB0	Tape & Reel
1000 pF	100	±10%	X7R	08052R102K0BB0	Tape & Reel
1000 pF	100	±20%	X7R	08052R102M0BB0	Tape & Reel
1200 pF	100	±10%	X7R	08052R122K0BB0	Tape & Reel
1200 pF	100	±20%	X7R	08052R122M0BB0	Tape & Reel
1500 pF	100	±10%	X7R	08052R152K0BB0	Tape & Reel
1500 pF	100	±20%	X7R	08052R152M0BB0	Tape & Reel
1800 pF	100	±10%	X7R	08052R182K0BB0	Tape & Reel
1800 pF	100	±20%	X7R	08052R182M0BB0	Tape & Reel
2200 pF	100	±10%	X7R	08052R222K0BB0	Tape & Reel
2200 pF	100	±20%	X7R	08052R222M0BB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 0805 Dielectric: X7R

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
2700 pF	100	±10%	X7R	08052R272K0BB0	Tape & Reel
2700 pF	100	±20%	X7R	08052R272M0BB0	Tape & Reel
3300 pF	100	±10%	X7R	08052R332K0BB0	Tape & Reel
3300 pF	100	±20%	X7R	08052R332M0BB0	Tape & Reel
3900 pF	100	±10%	X7R	08052R392K0BB0	Tape & Reel
3900 pF	100	±20%	X7R	08052R392M0BB0	Tape & Reel
4700 pF	100	±10%	X7R	08052R472K0BB0	Tape & Reel
4700 pF	100	±20%	X7R	08052R472M0BB0	Tape & Reel
5600 pF	100	±10%	X7R	08052R562K0BB0	Tape & Reel
5600 pF	100	±20%	X7R	08052R562M0BB0	Tape & Reel
6800 pF	100	±10%	X7R	08052R682K0BB0	Tape & Reel
6800 pF	100	±20%	X7R	08052R682M0BB0	Tape & Reel
8200 pF	100	±10%	X7R	08052R822K0BB0	Tape & Reel
8200 pF	100	±20%	X7R	08052R822M0BB0	Tape & Reel
0.010 µF	100	±10%	X7R	08052R103K0BB0	Tape & Reel
0.010 µF	100	±20%	X7R	08052R103M0BB0	Tape & Reel
180 pF	200	±10%	X7R	08052R181KBBB0	Tape & Reel
180 pF	200	±20%	X7R	08052R181MBBB0	Tape & Reel
220 pF	200	±10%	X7R	08052R221KBBB0	Tape & Reel
220 pF	200	±20%	X7R	08052R221MBBB0	Tape & Reel
270 pF	200	±10%	X7R	08052R271KBBB0	Tape & Reel
270 pF	200	±20%	X7R	08052R271MBBB0	Tape & Reel
330 pF	200	±10%	X7R	08052R331KBBB0	Tape & Reel
330 pF	200	±20%	X7R	08052R331MBBB0	Tape & Reel
390 pF	200	±10%	X7R	08052R391KBBB0	Tape & Reel
390 pF	200	±20%	X7R	08052R391MBBB0	Tape & Reel
470 pF	200	±10%	X7R	08052R471KBBB0	Tape & Reel
470 pF	200	±20%	X7R	08052R471MBBB0	Tape & Reel
560 pF	200	±10%	X7R	08052R561KBBB0	Tape & Reel
560 pF	200	±20%	X7R	08052R561MBBB0	Tape & Reel
680 pF	200	±10%	X7R	08052R681KBBB0	Tape & Reel
680 pF	200	±20%	X7R	08052R681MBBB0	Tape & Reel
820 pF	200	±10%	X7R	08052R821KBBB0	Tape & Reel
820 pF	200	±20%	X7R	08052R821MBBB0	Tape & Reel
1000 pF	200	±10%	X7R	08052R102KBBB0	Tape & Reel
1000 pF	200	±20%	X7R	08052R102MBBB0	Tape & Reel
1200 pF	200	±10%	X7R	08052R122KBBB0	Tape & Reel
1200 pF	200	±20%	X7R	08052R122MBBB0	Tape & Reel
1500 pF	200	±10%	X7R	08052R152KBBB0	Tape & Reel
1500 pF	200	±20%	X7R	08052R152MBBB0	Tape & Reel
1800 pF	200	±10%	X7R	08052R182KBBB0	Tape & Reel
1800 pF	200	±20%	X7R	08052R182MBBB0	Tape & Reel
2200 pF	200	±10%	X7R	08052R222KBBB0	Tape & Reel
2200 pF	200	±20%	X7R	08052R222MBBB0	Tape & Reel
2700 pF	200	±10%	X7R	08052R272KBBB0	Tape & Reel
2700 pF	200	±20%	X7R	08052R272MBBB0	Tape & Reel
3300 pF	200	±10%	X7R	08052R332KBBB0	Tape & Reel
3300 pF	200	±20%	X7R	08052R332MBBB0	Tape & Reel
3900 pF	200	±10%	X7R	08052R392KBBB0	Tape & Reel
3900 pF	200	±20%	X7R	08052R392MBBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
4700 pF	200	±10%	X7R	08052R472KBBB0	Tape & Reel
4700 pF	200	±20%	X7R	08052R472MBBB0	Tape & Reel
5600 pF	200	±10%	X7R	08052R562KBBB0	Tape & Reel
5600 pF	200	±20%	X7R	08052R562MBBB0	Tape & Reel
6800 pF	200	±10%	X7R	08052R682KBBB0	Tape & Reel
6800 pF	200	±20%	X7R	08052R682MBBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 0805 Dielectric: Z5U

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	50	$\pm 20\%$	Z5U	08052E103M9BB2	Tape & Reel
0.010 μ F	50	+80%/-20%	Z5U	08052E103Z9BB2	Tape & Reel
0.012 μ F	50	$\pm 20\%$	Z5U	08052E123M9BB2	Tape & Reel
0.012 μ F	50	+80%/-20%	Z5U	08052E123Z9BB2	Tape & Reel
0.015 μ F	50	$\pm 20\%$	Z5U	08052E153M9BB2	Tape & Reel
0.015 μ F	50	+80%/-20%	Z5U	08052E153Z9BB2	Tape & Reel
0.018 μ F	50	$\pm 20\%$	Z5U	08052E183M9BB2	Tape & Reel
0.018 μ F	50	+80%/-20%	Z5U	08052E183Z9BB2	Tape & Reel
0.022 μ F	50	$\pm 20\%$	Z5U	08052E223M9BB2	Tape & Reel
0.022 μ F	50	+80%/-20%	Z5U	08052E223Z9BB2	Tape & Reel
0.027 μ F	50	$\pm 20\%$	Z5U	08052E273M9BB2	Tape & Reel
0.027 μ F	50	+80%/-20%	Z5U	08052E273Z9BB2	Tape & Reel
0.033 μ F	50	$\pm 20\%$	Z5U	08052E333M9BB2	Tape & Reel
0.033 μ F	50	+80%/-20%	Z5U	08052E333Z9BB2	Tape & Reel
0.039 μ F	50	$\pm 20\%$	Z5U	08052E393M9BB2	Tape & Reel
0.039 μ F	50	+80%/-20%	Z5U	08052E393Z9BB2	Tape & Reel
0.047 μ F	50	$\pm 20\%$	Z5U	08052E473M9BB2	Tape & Reel
0.047 μ F	50	+80%/-20%	Z5U	08052E473Z9BB2	Tape & Reel
0.056 μ F	50	$\pm 20\%$	Z5U	08052E563M9BB2	Tape & Reel
0.056 μ F	50	+80%/-20%	Z5U	08052E563Z9BB2	Tape & Reel
0.068 μ F	50	$\pm 20\%$	Z5U	08052E683M9BB2	Tape & Reel
0.068 μ F	50	+80%/-20%	Z5U	08052E683Z9BB2	Tape & Reel
0.082 μ F	50	$\pm 20\%$	Z5U	08052E823M9BB2	Tape & Reel
0.082 μ F	50	+80%/-20%	Z5U	08052E823Z9BB2	Tape & Reel
0.1 μ F	50	$\pm 20\%$	Z5U	08052E104M9BB2	Tape & Reel
0.1 μ F	50	+80%/-20%	Z5U	08052E104Z9BB2	Tape & Reel

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
4700 pF	25	±20%	Y5V	08052F472M8BB2	Tape & Reel
4700 pF	25	+80%/ -20%	Y5V	08052F472Z8BB2	Tape & Reel
5600 pF	25	±20%	Y5V	08052F562M8BB2	Tape & Reel
5600 pF	25	+80%/ -20%	Y5V	08052F562Z8BB2	Tape & Reel
6800 pF	25	±20%	Y5V	08052F682M8BB2	Tape & Reel
6800 pF	25	+80%/ -20%	Y5V	08052F682Z8BB2	Tape & Reel
8200 pF	25	±20%	Y5V	08052F822M8BB2	Tape & Reel
8200 pF	25	+80%/ -20%	Y5V	08052F822Z8BB2	Tape & Reel
0.010 µF	25	±20%	Y5V	08052F103M8BB2	Tape & Reel
0.010 µF	25	+80%/ -20%	Y5V	08052F103Z8BB2	Tape & Reel
0.012 µF	25	±20%	Y5V	08052F123M8BB2	Tape & Reel
0.012 µF	25	+80%/ -20%	Y5V	08052F123Z8BB2	Tape & Reel
0.015 µF	25	±20%	Y5V	08052F153M8BB2	Tape & Reel
0.015 µF	25	+80%/ -20%	Y5V	08052F153Z8BB2	Tape & Reel
0.018 µF	25	±20%	Y5V	08052F183M8BB2	Tape & Reel
0.018 µF	25	+80%/ -20%	Y5V	08052F183Z8BB2	Tape & Reel
0.022 µF	25	±20%	Y5V	08052F223M8BB2	Tape & Reel
0.022 µF	25	+80%/ -20%	Y5V	08052F223Z8BB2	Tape & Reel
0.027 µF	25	±20%	Y5V	08052F273M8BB2	Tape & Reel
0.027 µF	25	+80%/ -20%	Y5V	08052F273Z8BB2	Tape & Reel
0.033 µF	25	±20%	Y5V	08052F333M8BB2	Tape & Reel
0.033 µF	25	+80%/ -20%	Y5V	08052F333Z8BB2	Tape & Reel
0.039 µF	25	±20%	Y5V	08052F393M8BB2	Tape & Reel
0.039 µF	25	+80%/ -20%	Y5V	08052F393Z8BB2	Tape & Reel
0.047 µF	25	±20%	Y5V	08052F473M8BB2	Tape & Reel
0.047 µF	25	+80%/ -20%	Y5V	08052F473Z8BB2	Tape & Reel
0.056 µF	25	±20%	Y5V	08052F563M8BB2	Tape & Reel
0.056 µF	25	+80%/ -20%	Y5V	08052F563Z8BB2	Tape & Reel
0.068 µF	25	±20%	Y5V	08052F683M8BB2	Tape & Reel
0.068 µF	25	+80%/ -20%	Y5V	08052F683Z8BB2	Tape & Reel
0.082 µF	25	±20%	Y5V	08052F823M8BB2	Tape & Reel
0.082 µF	25	+80%/ -20%	Y5V	08052F823Z8BB2	Tape & Reel
0.1 µF	25	±20%	Y5V	08052F104M8BB2	Tape & Reel
0.1 µF	25	+80%/ -20%	Y5V	08052F104Z8BB2	Tape & Reel
0.12 µF	25	±20%	Y5V	08052F124M8BB2	Tape & Reel
0.12 µF	25	+80%/ -20%	Y5V	08052F124Z8BB2	Tape & Reel
0.15 µF	25	±20%	Y5V	08052F154M8BB2	Tape & Reel
0.15 µF	25	+80%/ -20%	Y5V	08052F154Z8BB2	Tape & Reel
0.18 µF	25	±20%	Y5V	08052F184M8BB2	Tape & Reel
0.18 µF	25	+80%/ -20%	Y5V	08052F184Z8BB2	Tape & Reel
0.22 µF	25	±20%	Y5V	08052F224M8BB2	Tape & Reel
0.22 µF	25	+80%/ -20%	Y5V	08052F224Z8BB2	Tape & Reel
0.27 µF	25	±20%	Y5V	08052F274M8BB2	Tape & Reel
0.27 µF	25	+80%/ -20%	Y5V	08052F274Z8BB2	Tape & Reel
0.33 µF	25	±20%	Y5V	08052F334M8BB2	Tape & Reel
0.33 µF	25	+80%/ -20%	Y5V	08052F334Z8BB2	Tape & Reel
2200 pF	50	±20%	Y5V	08052F222M9BB2	Tape & Reel
2200 pF	50	+80%/ -20%	Y5V	08052F222Z9BB2	Tape & Reel
2700 pF	50	±20%	Y5V	08052F272M9BB2	Tape & Reel
2700 pF	50	+80%/ -20%	Y5V	08052F272Z9BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 0805 Dielectric: Y5V

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
3300 pF	50	±20%	Y5V	08052F332M9BB2	Tape & Reel
3300 pF	50	+80%/ -20%	Y5V	08052F332Z9BB2	Tape & Reel
3900 pF	50	±20%	Y5V	08052F392M9BB2	Tape & Reel
3900 pF	50	+80%/ -20%	Y5V	08052F392Z9BB2	Tape & Reel
4700 pF	50	±20%	Y5V	08052F472M9BB2	Tape & Reel
4700 pF	50	+80%/ -20%	Y5V	08052F472Z9BB2	Tape & Reel
5600 pF	50	±20%	Y5V	08052F562M9BB2	Tape & Reel
5600 pF	50	+80%/ -20%	Y5V	08052F562Z9BB2	Tape & Reel
6800 pF	50	±20%	Y5V	08052F682M9BB2	Tape & Reel
6800 pF	50	+80%/ -20%	Y5V	08052F682Z9BB2	Tape & Reel
8200 pF	50	±20%	Y5V	08052F822M9BB2	Tape & Reel
8200 pF	50	+80%/ -20%	Y5V	08052F822Z9BB2	Tape & Reel
0.010 µF	50	±20%	Y5V	08052F103M9BB2	Tape & Reel
0.010 µF	50	+80%/ -20%	Y5V	08052F103Z9BB2	Tape & Reel
0.012 µF	50	±20%	Y5V	08052F123M9BB2	Tape & Reel
0.012 µF	50	+80%/ -20%	Y5V	08052F123Z9BB2	Tape & Reel
0.015 µF	50	±20%	Y5V	08052F153M9BB2	Tape & Reel
0.015 µF	50	+80%/ -20%	Y5V	08052F153Z9BB2	Tape & Reel
0.018 µF	50	±20%	Y5V	08052F183M9BB2	Tape & Reel
0.018 µF	50	+80%/ -20%	Y5V	08052F183Z9BB2	Tape & Reel
0.022 µF	50	±20%	Y5V	08052F223M9BB2	Tape & Reel
0.022 µF	50	+80%/ -20%	Y5V	08052F223Z9BB2	Tape & Reel
0.027 µF	50	±20%	Y5V	08052F273M9BB2	Tape & Reel
0.027 µF	50	+80%/ -20%	Y5V	08052F273Z9BB2	Tape & Reel
0.033 µF	50	±20%	Y5V	08052F333M9BB2	Tape & Reel
0.033 µF	50	+80%/ -20%	Y5V	08052F333Z9BB2	Tape & Reel
0.039 µF	50	±20%	Y5V	08052F393M9BB2	Tape & Reel
0.039 µF	50	+80%/ -20%	Y5V	08052F393Z9BB2	Tape & Reel
0.047 µF	50	±20%	Y5V	08052F473M9BB2	Tape & Reel
0.047 µF	50	+80%/ -20%	Y5V	08052F473Z9BB2	Tape & Reel
0.056 µF	50	±20%	Y5V	08052F563M9BB2	Tape & Reel
0.056 µF	50	+80%/ -20%	Y5V	08052F563Z9BB2	Tape & Reel
0.068 µF	50	±20%	Y5V	08052F683M9BB2	Tape & Reel
0.068 µF	50	+80%/ -20%	Y5V	08052F683Z9BB2	Tape & Reel
0.082 µF	50	±20%	Y5V	08052F823M9BB2	Tape & Reel
0.082 µF	50	+80%/ -20%	Y5V	08052F823Z9BB2	Tape & Reel
0.1 µF	50	±20%	Y5V	08052F104M9BB2	Tape & Reel
0.1 µF	50	+80%/ -20%	Y5V	08052F104Z9BB2	Tape & Reel
0.12 µF	50	±20%	Y5V	08052F124M9BB2	Tape & Reel
0.12 µF	50	+80%/ -20%	Y5V	08052F124Z9BB2	Tape & Reel
0.15 µF	50	±20%	Y5V	08052F154M9BB2	Tape & Reel
0.15 µF	50	+80%/ -20%	Y5V	08052F154Z9BB2	Tape & Reel
0.18 µF	50	±20%	Y5V	08052F184M9BB2	Tape & Reel
0.18 µF	50	+80%/ -20%	Y5V	08052F184Z9BB2	Tape & Reel
0.22 µF	50	±20%	Y5V	08052F224M9BB2	Tape & Reel
0.22 µF	50	+80%/ -20%	Y5V	08052F224Z9BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.47 pF	50	±.25 pF	C0K	1206CG478C9BB2	Tape & Reel
0.56 pF	50	±.25 pF	C0K	1206CG568C9BB2	Tape & Reel
0.68 pF	50	±.25 pF	C0K	1206CG688C9BB2	Tape & Reel
0.82 pF	50	±.25 pF	C0K	1206CG828C9BB2	Tape & Reel
1.0 pF	50	±.25 pF	C0K	1206CG109C9BB2	Tape & Reel
1.2 pF	50	±.25 pF	C0K	1206CG129C9BB2	Tape & Reel
1.5 pF	50	±.25 pF	C0K	1206CG159C9BB2	Tape & Reel
1.8 pF	50	±.25 pF	C0K	1206CG189C9BB2	Tape & Reel
2.2 pF	50	±.25 pF	C0K	1206CG229C9BB2	Tape & Reel
2.7 pF	50	±.25 pF	C0K	1206CG279C9BB2	Tape & Reel
3.3 pF	50	±.25 pF	C0K	1206CG339C9BB2	Tape & Reel
3.9 pF	50	±.25 pF	C0K	1206CG399C9BB2	Tape & Reel
4.7 pF	50	±.25 pF	C0K	1206CG479C9BB2	Tape & Reel
5.6 pF	50	±.50 pF	C0K	1206CG569D9BB2	Tape & Reel
6.8 pF	50	±.50 pF	C0K	1206CG689D9BB2	Tape & Reel
8.2 pF	50	±.50 pF	C0K	1206CG829D9BB2	Tape & Reel
10 pF	50	±5%	C0G	1206CG100J9BB2	Tape & Reel
10 pF	50	±10%	C0G	1206CG100K9BB2	Tape & Reel
12 pF	50	±5%	C0G	1206CG120J9BB2	Tape & Reel
12 pF	50	±10%	C0G	1206CG120K9BB2	Tape & Reel
15 pF	50	±5%	C0G	1206CG150J9BB2	Tape & Reel
15 pF	50	±10%	C0G	1206CG150K9BB2	Tape & Reel
18 pF	50	±5%	C0G	1206CG180J9BB2	Tape & Reel
18 pF	50	±10%	C0G	1206CG180K9BB2	Tape & Reel
22 pF	50	±5%	C0G	1206CG220J9BB2	Tape & Reel
22 pF	50	±10%	C0G	1206CG220K9BB2	Tape & Reel
27 pF	50	±5%	C0G	1206CG270J9BB2	Tape & Reel
27 pF	50	±10%	C0G	1206CG270K9BB2	Tape & Reel
33 pF	50	±5%	C0G	1206CG330J9BB2	Tape & Reel
33 pF	50	±10%	C0G	1206CG330K9BB2	Tape & Reel
39 pF	50	±5%	C0G	1206CG390J9BB2	Tape & Reel
39 pF	50	±10%	C0G	1206CG390K9BB2	Tape & Reel
47 pF	50	±5%	C0G	1206CG470J9BB2	Tape & Reel
47 pF	50	±10%	C0G	1206CG470K9BB2	Tape & Reel
56 pF	50	±5%	C0G	1206CG560J9BB2	Tape & Reel
56 pF	50	±10%	C0G	1206CG560K9BB2	Tape & Reel
68 pF	50	±5%	C0G	1206CG680J9BB2	Tape & Reel
68 pF	50	±10%	C0G	1206CG680K9BB2	Tape & Reel
82 pF	50	±5%	C0G	1206CG820J9BB2	Tape & Reel
82 pF	50	±10%	C0G	1206CG820K9BB2	Tape & Reel
100 pF	50	±5%	C0G	1206CG101J9BB2	Tape & Reel
100 pF	50	±10%	C0G	1206CG101K9BB2	Tape & Reel
120 pF	50	±5%	C0G	1206CG121J9BB2	Tape & Reel
120 pF	50	±10%	C0G	1206CG121K9BB2	Tape & Reel
150 pF	50	±5%	C0G	1206CG151J9BB2	Tape & Reel
150 pF	50	±10%	C0G	1206CG151K9BB2	Tape & Reel
180 pF	50	±5%	C0G	1206CG181J9BB2	Tape & Reel
180 pF	50	±10%	C0G	1206CG181K9BB2	Tape & Reel
220 pF	50	±5%	C0G	1206CG221J9BB2	Tape & Reel
220 pF	50	±10%	C0G	1206CG221K9BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1206 Dielectric: C0K, C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
270 pF	50	±5%	C0G	1206CG271J9BB2	Tape & Reel
270 pF	50	±10%	C0G	1206CG271K9BB2	Tape & Reel
330 pF	50	±5%	C0G	1206CG331J9BB2	Tape & Reel
330 pF	50	±10%	C0G	1206CG331K9BB2	Tape & Reel
390 pF	50	±5%	C0G	1206CG391J9BB2	Tape & Reel
390 pF	50	±10%	C0G	1206CG391K9BB2	Tape & Reel
470 pF	50	±5%	C0G	1206CG471J9BB2	Tape & Reel
470 pF	50	±10%	C0G	1206CG471K9BB2	Tape & Reel
560 pF	50	±5%	C0G	1206CG561J9BB2	Tape & Reel
560 pF	50	±10%	C0G	1206CG561K9BB2	Tape & Reel
680 pF	50	±5%	C0G	1206CG681J9BB2	Tape & Reel
680 pF	50	±10%	C0G	1206CG681K9BB2	Tape & Reel
820 pF	50	±5%	C0G	1206CG821J9BB2	Tape & Reel
820 pF	50	±10%	C0G	1206CG821K9BB2	Tape & Reel
1000 pF	50	±5%	C0G	1206CG102J9BB2	Tape & Reel
1000 pF	50	±10%	C0G	1206CG102K9BB2	Tape & Reel
1200 pF	50	±5%	C0G	1206CG122J9BB2	Tape & Reel
1200 pF	50	±10%	C0G	1206CG122K9BB2	Tape & Reel
1500 pF	50	±5%	C0G	1206CG152J9BB2	Tape & Reel
1500 pF	50	±10%	C0G	1206CG152K9BB2	Tape & Reel
1800 pF	50	±5%	C0G	1206CG182J9BB2	Tape & Reel
1800 pF	50	±10%	C0G	1206CG182K9BB2	Tape & Reel
2200 pF	50	±5%	C0G	1206CG222J9BB2	Tape & Reel
2200 pF	50	±10%	C0G	1206CG222K9BB2	Tape & Reel
2700 pF	50	±5%	C0G	1206CG272J9BB2	Tape & Reel
2700 pF	50	±10%	C0G	1206CG272K9BB2	Tape & Reel
3300 pF	50	±5%	C0G	1206CG332J9BB2	Tape & Reel
3300 pF	50	±10%	C0G	1206CG332K9BB2	Tape & Reel
0.47 pF	100	±.25 pF	C0K	1206CG478C0BB2	Tape & Reel
0.56 pF	100	±.25 pF	C0K	1206CG568C0BB2	Tape & Reel
0.68 pF	100	±.25 pF	C0K	1206CG688C0BB2	Tape & Reel
0.82 pF	100	±.25 pF	C0K	1206CG828C0BB2	Tape & Reel
1.0 pF	100	±.25 pF	C0K	1206CG109C0BB2	Tape & Reel
1.2 pF	100	±.25 pF	C0K	1206CG129C0BB2	Tape & Reel
1.5 pF	100	±.25 pF	C0K	1206CG159C0BB2	Tape & Reel
1.8 pF	100	±.25 pF	C0K	1206CG189C0BB2	Tape & Reel
2.2 pF	100	±.25 pF	C0K	1206CG229C0BB2	Tape & Reel
2.7 pF	100	±.25 pF	C0K	1206CG279C0BB2	Tape & Reel
3.3 pF	100	±.25 pF	C0K	1206CG339C0BB2	Tape & Reel
3.9 pF	100	±.25 pF	C0K	1206CG399C0BB2	Tape & Reel
4.7 pF	100	±.25 pF	C0K	1206CG479C0BB2	Tape & Reel
5.6 pF	100	±.50 pF	C0K	1206CG569D0BB2	Tape & Reel
6.8 pF	100	±.50 pF	C0K	1206CG689D0BB2	Tape & Reel
8.2 pF	100	±.50 pF	C0K	1206CG829D0BB2	Tape & Reel
10 pF	100	±5%	C0G	1206CG100J0BB2	Tape & Reel
10 pF	100	±10%	C0G	1206CG100K0BB2	Tape & Reel
12 pF	100	±5%	C0G	1206CG120J0BB2	Tape & Reel
12 pF	100	±10%	C0G	1206CG120K0BB2	Tape & Reel
15 pF	100	±5%	C0G	1206CG150J0BB2	Tape & Reel
15 pF	100	±10%	C0G	1206CG150K0BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
18 pF	100	±5%	C0G	1206CG180J0BB2	Tape & Reel
18 pF	100	±10%	C0G	1206CG180K0BB2	Tape & Reel
22 pF	100	±5%	C0G	1206CG220J0BB2	Tape & Reel
22 pF	100	±10%	C0G	1206CG220K0BB2	Tape & Reel
27 pF	100	±5%	C0G	1206CG270J0BB2	Tape & Reel
27 pF	100	±10%	C0G	1206CG270K0BB2	Tape & Reel
33 pF	100	±5%	C0G	1206CG330J0BB2	Tape & Reel
33 pF	100	±10%	C0G	1206CG330K0BB2	Tape & Reel
39 pF	100	±5%	C0G	1206CG390J0BB2	Tape & Reel
39 pF	100	±10%	C0G	1206CG390K0BB2	Tape & Reel
47 pF	100	±5%	C0G	1206CG470J0BB2	Tape & Reel
47 pF	100	±10%	C0G	1206CG470K0BB2	Tape & Reel
56 pF	100	±5%	C0G	1206CG560J0BB2	Tape & Reel
56 pF	100	±10%	C0G	1206CG560K0BB2	Tape & Reel
68 pF	100	±5%	C0G	1206CG680J0BB2	Tape & Reel
68 pF	100	±10%	C0G	1206CG680K0BB2	Tape & Reel
82 pF	100	±5%	C0G	1206CG820J0BB2	Tape & Reel
82 pF	100	±10%	C0G	1206CG820K0BB2	Tape & Reel
100 pF	100	±5%	C0G	1206CG101J0BB2	Tape & Reel
100 pF	100	±10%	C0G	1206CG101K0BB2	Tape & Reel
120 pF	100	±5%	C0G	1206CG121J0BB2	Tape & Reel
120 pF	100	±10%	C0G	1206CG121K0BB2	Tape & Reel
150 pF	100	±5%	C0G	1206CG151J0BB2	Tape & Reel
150 pF	100	±10%	C0G	1206CG151K0BB2	Tape & Reel
180 pF	100	±5%	C0G	1206CG181J0BB2	Tape & Reel
180 pF	100	±10%	C0G	1206CG181K0BB2	Tape & Reel
220 pF	100	±5%	C0G	1206CG221J0BB2	Tape & Reel
220 pF	100	±10%	C0G	1206CG221K0BB2	Tape & Reel
270 pF	100	±5%	C0G	1206CG271J0BB2	Tape & Reel
270 pF	100	±10%	C0G	1206CG271K0BB2	Tape & Reel
330 pF	100	±5%	C0G	1206CG331J0BB2	Tape & Reel
330 pF	100	±10%	C0G	1206CG331K0BB2	Tape & Reel
390 pF	100	±5%	C0G	1206CG391J0BB2	Tape & Reel
390 pF	100	±10%	C0G	1206CG391K0BB2	Tape & Reel
470 pF	100	±5%	C0G	1206CG471J0BB2	Tape & Reel
470 pF	100	±10%	C0G	1206CG471K0BB2	Tape & Reel
560 pF	100	±5%	C0G	1206CG561J0BB2	Tape & Reel
560 pF	100	±10%	C0G	1206CG561K0BB2	Tape & Reel
680 pF	100	±5%	C0G	1206CG681J0BB2	Tape & Reel
680 pF	100	±10%	C0G	1206CG681K0BB2	Tape & Reel
820 pF	100	±5%	C0G	1206CG821J0BB2	Tape & Reel
820 pF	100	±10%	C0G	1206CG821K0BB2	Tape & Reel
1000 pF	100	±5%	C0G	1206CG102J0BB2	Tape & Reel
1000 pF	100	±10%	C0G	1206CG102K0BB2	Tape & Reel
1200 pF	100	±5%	C0G	1206CG122J0BB2	Tape & Reel
1200 pF	100	±10%	C0G	1206CG122K0BB2	Tape & Reel
1500 pF	100	±5%	C0G	1206CG152J0BB2	Tape & Reel
1500 pF	100	±10%	C0G	1206CG152K0BB2	Tape & Reel
1800 pF	100	±5%	C0G	1206CG182J0BB2	Tape & Reel
1800 pF	100	±10%	C0G	1206CG182K0BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1206 Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
2200 pF	100	±5%	C0G	1206CG222J0BB2	Tape & Reel
2200 pF	100	±10%	C0G	1206CG222K0BB2	Tape & Reel
2700 pF	100	±5%	C0G	1206CG272J0BB2	Tape & Reel
2700 pF	100	±10%	C0G	1206CG272K0BB2	Tape & Reel
3300 pF	100	±5%	C0G	1206CG332J0BB2	Tape & Reel
3300 pF	100	±10%	C0G	1206CG332K0BB2	Tape & Reel
10 pF	200	±5%	C0G	1206CG100JBBB0	Tape & Reel
10 pF	200	±10%	C0G	1206CG100KBBB0	Tape & Reel
12 pF	200	±5%	C0G	1206CG120JBBB0	Tape & Reel
12 pF	200	±10%	C0G	1206CG120KBBB0	Tape & Reel
15 pF	200	±5%	C0G	1206CG150JBBB0	Tape & Reel
15 pF	200	±10%	C0G	1206CG150KBBB0	Tape & Reel
18 pF	200	±5%	C0G	1206CG180JBBB0	Tape & Reel
18 pF	200	±10%	C0G	1206CG180KBBB0	Tape & Reel
22 pF	200	±5%	C0G	1206CG220JBBB0	Tape & Reel
22 pF	200	±10%	C0G	1206CG220KBBB0	Tape & Reel
27 pF	200	±5%	C0G	1206CG270JBBB0	Tape & Reel
27 pF	200	±10%	C0G	1206CG270KBBB0	Tape & Reel
33 pF	200	±5%	C0G	1206CG330JBBB0	Tape & Reel
33 pF	200	±10%	C0G	1206CG330KBBB0	Tape & Reel
39 pF	200	±5%	C0G	1206CG390JBBB0	Tape & Reel
39 pF	200	±10%	C0G	1206CG390KBBB0	Tape & Reel
47 pF	200	±5%	C0G	1206CG470JBBB0	Tape & Reel
47 pF	200	±10%	C0G	1206CG470KBBB0	Tape & Reel
56 pF	200	±5%	C0G	1206CG560JBBB0	Tape & Reel
56 pF	200	±10%	C0G	1206CG560KBBB0	Tape & Reel
68 pF	200	±5%	C0G	1206CG680JBBB0	Tape & Reel
68 pF	200	±10%	C0G	1206CG680KBBB0	Tape & Reel
82 pF	200	±5%	C0G	1206CG820JBBB0	Tape & Reel
82 pF	200	±10%	C0G	1206CG820KBBB0	Tape & Reel
100 pF	200	±5%	C0G	1206CG101JBBB0	Tape & Reel
100 pF	200	±10%	C0G	1206CG101KBBB0	Tape & Reel
120 pF	200	±5%	C0G	1206CG121JBBB0	Tape & Reel
120 pF	200	±10%	C0G	1206CG121KBBB0	Tape & Reel
150 pF	200	±5%	C0G	1206CG151JBBB0	Tape & Reel
150 pF	200	±10%	C0G	1206CG151KBBB0	Tape & Reel
180 pF	200	±5%	C0G	1206CG181JBBB0	Tape & Reel
180 pF	200	±10%	C0G	1206CG181KBBB0	Tape & Reel
220 pF	200	±5%	C0G	1206CG221JBBB0	Tape & Reel
220 pF	200	±10%	C0G	1206CG221KBBB0	Tape & Reel
270 pF	200	±5%	C0G	1206CG271JBBB0	Tape & Reel
270 pF	200	±10%	C0G	1206CG271KBBB0	Tape & Reel
330 pF	200	±5%	C0G	1206CG331JBBB0	Tape & Reel
330 pF	200	±10%	C0G	1206CG331KBBB0	Tape & Reel
390 pF	200	±5%	C0G	1206CG391JBBB0	Tape & Reel
390 pF	200	±10%	C0G	1206CG391KBBB0	Tape & Reel
470 pF	200	±5%	C0G	1206CG471JBBB0	Tape & Reel
470 pF	200	±10%	C0G	1206CG471KBBB0	Tape & Reel
560 pF	200	±5%	C0G	1206CG561JBBB0	Tape & Reel
560 pF	200	±10%	C0G	1206CG561KBBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
10 pF	500	±5%	C0G	1206CG100JDBB0	Tape & Reel
10 pF	500	±10%	C0G	1206CG100KDBB0	Tape & Reel
12 pF	500	±5%	C0G	1206CG120JDBB0	Tape & Reel
12 pF	500	±10%	C0G	1206CG120KDBB0	Tape & Reel
15 pF	500	±5%	C0G	1206CG150JDBB0	Tape & Reel
15 pF	500	±10%	C0G	1206CG150KDBB0	Tape & Reel
18 pF	500	±5%	C0G	1206CG180JDBB0	Tape & Reel
18 pF	500	±10%	C0G	1206CG180KDBB0	Tape & Reel
22 pF	500	±5%	C0G	1206CG220JDBB0	Tape & Reel
22 pF	500	±10%	C0G	1206CG220KDBB0	Tape & Reel
27 pF	500	±5%	C0G	1206CG270JDBB0	Tape & Reel
27 pF	500	±10%	C0G	1206CG270KDBB0	Tape & Reel
33 pF	500	±5%	C0G	1206CG330JDBB0	Tape & Reel
33 pF	500	±10%	C0G	1206CG330KDBB0	Tape & Reel
39 pF	500	±5%	C0G	1206CG390JDBB0	Tape & Reel
39 pF	500	±10%	C0G	1206CG390KDBB0	Tape & Reel
47 pF	500	±5%	C0G	1206CG470JDBB0	Tape & Reel
47 pF	500	±10%	C0G	1206CG470KDBB0	Tape & Reel
56 pF	500	±5%	C0G	1206CG560JDBB0	Tape & Reel
56 pF	500	±10%	C0G	1206CG560KDBB0	Tape & Reel
68 pF	500	±5%	C0G	1206CG680JDBB0	Tape & Reel
68 pF	500	±10%	C0G	1206CG680KDBB0	Tape & Reel
82 pF	500	±5%	C0G	1206CG820JDBB0	Tape & Reel
82 pF	500	±10%	C0G	1206CG820KDBB0	Tape & Reel
100 pF	500	±5%	C0G	1206CG101JDBB0	Tape & Reel
100 pF	500	±10%	C0G	1206CG101KDBB0	Tape & Reel
120 pF	500	±5%	C0G	1206CG121JDBB0	Tape & Reel
120 pF	500	±10%	C0G	1206CG121KDBB0	Tape & Reel
150 pF	500	±5%	C0G	1206CG151JDBB0	Tape & Reel
150 pF	500	±10%	C0G	1206CG151KDBB0	Tape & Reel
180 pF	500	±5%	C0G	1206CG181JDBB0	Tape & Reel
180 pF	500	±10%	C0G	1206CG181KDBB0	Tape & Reel
220 pF	500	±5%	C0G	1206CG221JDBB0	Tape & Reel
220 pF	500	±10%	C0G	1206CG221KDBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1206 Dielectric: X7R

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.033 μ F	25	$\pm 10\%$	X7R	12062R333K8BB2	Tape & Reel
0.033 μ F	25	$\pm 20\%$	X7R	12062R333M8BB2	Tape & Reel
0.039 μ F	25	$\pm 10\%$	X7R	12062R393K8BB2	Tape & Reel
0.039 μ F	25	$\pm 20\%$	X7R	12062R393M8BB2	Tape & Reel
0.047 μ F	25	$\pm 10\%$	X7R	12062R473K8BB2	Tape & Reel
0.047 μ F	25	$\pm 20\%$	X7R	12062R473M8BB2	Tape & Reel
0.056 μ F	25	$\pm 10\%$	X7R	12062R563K8BB2	Tape & Reel
0.056 μ F	25	$\pm 20\%$	X7R	12062R563M8BB2	Tape & Reel
0.068 μ F	25	$\pm 10\%$	X7R	12062R683K8BB2	Tape & Reel
0.068 μ F	25	$\pm 20\%$	X7R	12062R683M8BB2	Tape & Reel
0.082 μ F	25	$\pm 10\%$	X7R	12062R823K8BB2	Tape & Reel
0.082 μ F	25	$\pm 20\%$	X7R	12062R823M8BB2	Tape & Reel
0.10 μ F	25	$\pm 10\%$	X7R	12062R104K8BB2	Tape & Reel
0.10 μ F	25	$\pm 20\%$	X7R	12062R104M8BB2	Tape & Reel
0.12 μ F	25	$\pm 10\%$	X7R	12062R124K8BB2	Tape & Reel
0.12 μ F	25	$\pm 20\%$	X7R	12062R124M8BB2	Tape & Reel
0.15 μ F	25	$\pm 10\%$	X7R	12062R154K8BB2	Tape & Reel
0.15 μ F	25	$\pm 20\%$	X7R	12062R154M8BB2	Tape & Reel
0.18 μ F	25	$\pm 10\%$	X7R	12062R184K8BB2	Tape & Reel
0.18 μ F	25	$\pm 20\%$	X7R	12062R184M8BB2	Tape & Reel
0.22 μ F	25	$\pm 10\%$	X7R	12062R224K8BB2	Tape & Reel
0.22 μ F	25	$\pm 20\%$	X7R	12062R224M8BB2	Tape & Reel
680 pF	50	$\pm 10\%$	X7R	12062R681K9BB2	Tape & Reel
680 pF	50	$\pm 20\%$	X7R	12062R681M9BB2	Tape & Reel
820 pF	50	$\pm 10\%$	X7R	12062R821K9BB2	Tape & Reel
820 pF	50	$\pm 20\%$	X7R	12062R821M9BB2	Tape & Reel
1000 pF	50	$\pm 10\%$	X7R	12062R102K9BB2	Tape & Reel
1000 pF	50	$\pm 20\%$	X7R	12062R102M9BB2	Tape & Reel
1200 pF	50	$\pm 10\%$	X7R	12062R122K9BB2	Tape & Reel
1200 pF	50	$\pm 20\%$	X7R	12062R122M9BB2	Tape & Reel
1500 pF	50	$\pm 10\%$	X7R	12062R152K9BB2	Tape & Reel
1500 pF	50	$\pm 20\%$	X7R	12062R152M9BB2	Tape & Reel
1800 pF	50	$\pm 10\%$	X7R	12062R182K9BB2	Tape & Reel
1800 pF	50	$\pm 20\%$	X7R	12062R182M9BB2	Tape & Reel
2200 pF	50	$\pm 10\%$	X7R	12062R222K9BB2	Tape & Reel
2200 pF	50	$\pm 20\%$	X7R	12062R222M9BB2	Tape & Reel
2700 pF	50	$\pm 10\%$	X7R	12062R272K9BB2	Tape & Reel
2700 pF	50	$\pm 20\%$	X7R	12062R272M9BB2	Tape & Reel
3300 pF	50	$\pm 10\%$	X7R	12062R332K9BB2	Tape & Reel
3300 pF	50	$\pm 20\%$	X7R	12062R332M9BB2	Tape & Reel
3900 pF	50	$\pm 10\%$	X7R	12062R392K9BB2	Tape & Reel
3900 pF	50	$\pm 20\%$	X7R	12062R392M9BB2	Tape & Reel
4700 pF	50	$\pm 10\%$	X7R	12062R472K9BB2	Tape & Reel
4700 pF	50	$\pm 20\%$	X7R	12062R472M9BB2	Tape & Reel
5600 pF	50	$\pm 10\%$	X7R	12062R562K9BB2	Tape & Reel
5600 pF	50	$\pm 20\%$	X7R	12062R562M9BB2	Tape & Reel
6800 pF	50	$\pm 10\%$	X7R	12062R682K9BB2	Tape & Reel
6800 pF	50	$\pm 20\%$	X7R	12062R682M9BB2	Tape & Reel
8200 pF	50	$\pm 10\%$	X7R	12062R822K9BB2	Tape & Reel
8200 pF	50	$\pm 20\%$	X7R	12062R822M9BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	50	$\pm 10\%$	X7R	12062R103K9BB2	Tape & Reel
0.010 μ F	50	$\pm 20\%$	X7R	12062R103M9BB2	Tape & Reel
0.012 μ F	50	$\pm 10\%$	X7R	12062R123K9BB2	Tape & Reel
0.012 μ F	50	$\pm 20\%$	X7R	12062R123M9BB2	Tape & Reel
0.015 μ F	50	$\pm 10\%$	X7R	12062R153K9BB2	Tape & Reel
0.015 μ F	50	$\pm 20\%$	X7R	12062R153M9BB2	Tape & Reel
0.018 μ F	50	$\pm 10\%$	X7R	12062R183K9BB2	Tape & Reel
0.018 μ F	50	$\pm 20\%$	X7R	12062R183M9BB2	Tape & Reel
0.022 μ F	50	$\pm 10\%$	X7R	12062R223K9BB2	Tape & Reel
0.022 μ F	50	$\pm 20\%$	X7R	12062R223M9BB2	Tape & Reel
0.027 μ F	50	$\pm 10\%$	X7R	12062R273K9BB2	Tape & Reel
0.027 μ F	50	$\pm 20\%$	X7R	12062R273M9BB2	Tape & Reel
0.033 μ F	50	$\pm 10\%$	X7R	12062R333K9BB2	Tape & Reel
0.033 μ F	50	$\pm 20\%$	X7R	12062R333M9BB2	Tape & Reel
0.039 μ F	50	$\pm 10\%$	X7R	12062R393K9BB2	Tape & Reel
0.039 μ F	50	$\pm 20\%$	X7R	12062R393M9BB2	Tape & Reel
0.047 μ F	50	$\pm 10\%$	X7R	12062R473K9BB2	Tape & Reel
0.047 μ F	50	$\pm 20\%$	X7R	12062R473M9BB2	Tape & Reel
0.056 μ F	50	$\pm 10\%$	X7R	12062R563K9BB2	Tape & Reel
0.056 μ F	50	$\pm 20\%$	X7R	12062R563M9BB2	Tape & Reel
0.068 μ F	50	$\pm 10\%$	X7R	12062R683K9BB2	Tape & Reel
0.068 μ F	50	$\pm 20\%$	X7R	12062R683M9BB2	Tape & Reel
0.082 μ F	50	$\pm 10\%$	X7R	12062R823K9BB2	Tape & Reel
0.082 μ F	50	$\pm 20\%$	X7R	12062R823M9BB2	Tape & Reel
0.1 μ F	50	$\pm 10\%$	X7R	12062R104K9BB2	Tape & Reel
0.1 μ F	50	$\pm 20\%$	X7R	12062R104M9BB2	Tape & Reel
0.12 μ F	50	$\pm 10\%$	X7R	12062R124K9BB2	Tape & Reel
0.12 μ F	50	$\pm 20\%$	X7R	12062R124M9BB2	Tape & Reel
680 pF	100	$\pm 10\%$	X7R	12062R681K0BB2	Tape & Reel
680 pF	100	$\pm 20\%$	X7R	12062R681M0BB2	Tape & Reel
820 pF	100	$\pm 10\%$	X7R	12062R821K0BB2	Tape & Reel
820 pF	100	$\pm 20\%$	X7R	12062R821M0BB2	Tape & Reel
1000 pF	100	$\pm 10\%$	X7R	12062R102K0BB2	Tape & Reel
1000 pF	100	$\pm 20\%$	X7R	12062R102M0BB2	Tape & Reel
1200 pF	100	$\pm 10\%$	X7R	12062R122K0BB2	Tape & Reel
1200 pF	100	$\pm 20\%$	X7R	12062R122M0BB2	Tape & Reel
1500 pF	100	$\pm 10\%$	X7R	12062R152K0BB2	Tape & Reel
1500 pF	100	$\pm 20\%$	X7R	12062R152M0BB2	Tape & Reel
1800 pF	100	$\pm 10\%$	X7R	12062R182K0BB2	Tape & Reel
1800 pF	100	$\pm 20\%$	X7R	12062R182M0BB2	Tape & Reel
2200 pF	100	$\pm 10\%$	X7R	12062R222K0BB2	Tape & Reel
2200 pF	100	$\pm 20\%$	X7R	12062R222M0BB2	Tape & Reel
2700 pF	100	$\pm 10\%$	X7R	12062R272K0BB2	Tape & Reel
2700 pF	100	$\pm 20\%$	X7R	12062R272M0BB2	Tape & Reel
3300 pF	100	$\pm 10\%$	X7R	12062R332K0BB2	Tape & Reel
3300 pF	100	$\pm 20\%$	X7R	12062R332M0BB2	Tape & Reel
3900 pF	100	$\pm 10\%$	X7R	12062R392K0BB2	Tape & Reel
3900 pF	100	$\pm 20\%$	X7R	12062R393M0BB2	Tape & Reel
4700 pF	100	$\pm 10\%$	X7R	12062R472K0BB2	Tape & Reel
4700 pF	100	$\pm 20\%$	X7R	12062R472M0BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1206 Dielectric: X7R

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
5600 pF	100	±10%	X7R	12062R562K0BB2	Tape & Reel
5600 pF	100	±20%	X7R	12062R562M0BB2	Tape & Reel
6800 pF	100	±10%	X7R	12062R682K0BB2	Tape & Reel
6800 pF	100	±20%	X7R	12062R682M0BB2	Tape & Reel
8200 pF	100	±10%	X7R	12062R822K0BB2	Tape & Reel
8200 pF	100	±20%	X7R	12062R822M0BB2	Tape & Reel
0.010 µF	100	±10%	X7R	12062R103K0BB2	Tape & Reel
0.010 µF	100	±20%	X7R	12062R103M0BB2	Tape & Reel
0.012 µF	100	±10%	X7R	12062R123K0BB2	Tape & Reel
0.012 µF	100	±20%	X7R	12062R123M0BB2	Tape & Reel
0.015 µF	100	±10%	X7R	12062R153K0BB2	Tape & Reel
0.015 µF	100	±20%	X7R	12062R153M0BB2	Tape & Reel
0.018 µF	100	±10%	X7R	12062R183K0BB2	Tape & Reel
0.018 µF	100	±20%	X7R	12062R183M0BB2	Tape & Reel
0.022 µF	100	±10%	X7R	12062R223K0BB2	Tape & Reel
0.022 µF	100	±20%	X7R	12062R223M0BB2	Tape & Reel
0.027 µF	100	±10%	X7R	12062R273K0BB2	Tape & Reel
0.027 µF	100	±20%	X7R	12062R273M0BB2	Tape & Reel
0.033 µF	100	±10%	X7R	12062R333K0BB2	Tape & Reel
0.033 µF	100	±20%	X7R	12062R333M0BB2	Tape & Reel
680 pF	200	±10%	X7R	12062R681KBBB0	Tape & Reel
680 pF	200	±20%	X7R	12062R681MBBB0	Tape & Reel
820 pF	200	±10%	X7R	12062R821KBBB0	Tape & Reel
820 pF	200	±20%	X7R	12062R821MBBB0	Tape & Reel
1000 pF	200	±10%	X7R	12062R102KBBB0	Tape & Reel
1000 pF	200	±20%	X7R	12062R102MBBB0	Tape & Reel
1200 pF	200	±10%	X7R	12062R122KBBB0	Tape & Reel
1200 pF	200	±20%	X7R	12062R122MBBB0	Tape & Reel
1500 pF	200	±10%	X7R	12062R152KBBB0	Tape & Reel
1500 pF	200	±20%	X7R	12062R152MBBB0	Tape & Reel
1800 pF	200	±10%	X7R	12062R182KBBB0	Tape & Reel
1800 pF	200	±20%	X7R	12062R182MBBB0	Tape & Reel
2200 pF	200	±10%	X7R	12062R222KBBB0	Tape & Reel
2200 pF	200	±20%	X7R	12062R222MBBB0	Tape & Reel
2700 pF	200	±10%	X7R	12062R272KBBB0	Tape & Reel
2700 pF	200	±20%	X7R	12062R272MBBB0	Tape & Reel
3300 pF	200	±10%	X7R	12062R332KBBB0	Tape & Reel
3300 pF	200	±20%	X7R	12062R332MBBB0	Tape & Reel
3900 pF	200	±10%	X7R	12062R392KBBB0	Tape & Reel
3900 pF	200	±20%	X7R	12062R392MBBB0	Tape & Reel
4700 pF	200	±10%	X7R	12062R472KBBB0	Tape & Reel
4700 pF	200	±20%	X7R	12062R472MBBB0	Tape & Reel
5600 pF	200	±10%	X7R	12062R562KBBB0	Tape & Reel
5600 pF	200	±20%	X7R	12062R562MBBB0	Tape & Reel
6800 pF	200	±10%	X7R	12062R682KBBB0	Tape & Reel
6800 pF	200	±20%	X7R	12062R682MBBB0	Tape & Reel
8200 pF	200	±10%	X7R	12062R822KBBB0	Tape & Reel
8200 pF	200	±20%	X7R	12062R822MBBB0	Tape & Reel
0.010 µF	200	±10%	X7R	12062R103KBBB0	Tape & Reel
0.010 µF	200	±20%	X7R	12062R103MBBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.012 μ F	200	$\pm 10\%$	X7R	12062R123KBBB0	Tape & Reel
0.012 μ F	200	$\pm 20\%$	X7R	12062R123MBBB0	Tape & Reel
0.015 μ F	200	$\pm 10\%$	X7R	12062R153KBBB0	Tape & Reel
0.015 μ F	200	$\pm 20\%$	X7R	12062R153MBBB0	Tape & Reel
0.018 μ F	200	$\pm 10\%$	X7R	12062R183KBBB0	Tape & Reel
0.018 μ F	200	$\pm 20\%$	X7R	12062R183MBBB0	Tape & Reel
0.022 μ F	200	$\pm 10\%$	X7R	12062R223KBBB0	Tape & Reel
0.022 μ F	200	$\pm 20\%$	X7R	12062R223MBBB0	Tape & Reel
470 pF	500	$\pm 10\%$	X7R	12062R471KDBB0	Tape & Reel
470 pF	500	$\pm 20\%$	X7R	12062R471MDBB0	Tape & Reel
560 pF	500	$\pm 10\%$	X7R	12062R561KDBB0	Tape & Reel
560 pF	500	$\pm 20\%$	X7R	12062R561MDBB0	Tape & Reel
680 pF	500	$\pm 10\%$	X7R	12062R681KDBB0	Tape & Reel
680 pF	500	$\pm 20\%$	X7R	12062R681MDBB0	Tape & Reel
820 pF	500	$\pm 10\%$	X7R	12062R821KDBB0	Tape & Reel
820 pF	500	$\pm 20\%$	X7R	12062R821MDBB0	Tape & Reel
1000 pF	500	$\pm 10\%$	X7R	12062R102KDBB0	Tape & Reel
1000 pF	500	$\pm 20\%$	X7R	12062R102MDBB0	Tape & Reel
1200 pF	500	$\pm 10\%$	X7R	12062R122KDBB0	Tape & Reel
1200 pF	500	$\pm 20\%$	X7R	12062R122MDBB0	Tape & Reel
1500 pF	500	$\pm 10\%$	X7R	12062R152KDBB0	Tape & Reel
1500 pF	500	$\pm 20\%$	X7R	12062R152MDBB0	Tape & Reel
1800 pF	500	$\pm 10\%$	X7R	12062R182KDBB0	Tape & Reel
1800 pF	500	$\pm 20\%$	X7R	12062R182MDBB0	Tape & Reel
2200 pF	500	$\pm 10\%$	X7R	12062R222KDBB0	Tape & Reel
2200 pF	500	$\pm 20\%$	X7R	12062R222MDBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1206 Dielectric: Z5U

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	50	$\pm 20\%$	Z5U	12062E103M9BB2	Tape & Reel
0.010 μ F	50	+80% / -20%	Z5U	12062E103Z9BB2	Tape & Reel
0.012 μ F	50	$\pm 20\%$	Z5U	12062E123M9BB2	Tape & Reel
0.012 μ F	50	+80% / -20%	Z5U	12062E123Z9BB2	Tape & Reel
0.015 μ F	50	$\pm 20\%$	Z5U	12062E153M9BB2	Tape & Reel
0.015 μ F	50	+80% / -20%	Z5U	12062E153Z9BB2	Tape & Reel
0.018 μ F	50	$\pm 20\%$	Z5U	12062E183M9BB2	Tape & Reel
0.018 μ F	50	+80% / -20%	Z5U	12062E183Z9BB2	Tape & Reel
0.022 μ F	50	$\pm 20\%$	Z5U	12062E223M9BB2	Tape & Reel
0.022 μ F	50	+80% / -20%	Z5U	12062E223Z9BB2	Tape & Reel
0.027 μ F	50	$\pm 20\%$	Z5U	12062E273M9BB2	Tape & Reel
0.027 μ F	50	+80% / -20%	Z5U	12062E273Z9BB2	Tape & Reel
0.033 μ F	50	$\pm 20\%$	Z5U	12062E333M9BB2	Tape & Reel
0.033 μ F	50	+80% / -20%	Z5U	12062E333Z9BB2	Tape & Reel
0.039 μ F	50	$\pm 20\%$	Z5U	12062E393M9BB2	Tape & Reel
0.039 μ F	50	+80% / -20%	Z5U	12062E393Z9BB2	Tape & Reel
0.047 μ F	50	$\pm 20\%$	Z5U	12062E473M9BB2	Tape & Reel
0.047 μ F	50	+80% / -20%	Z5U	12062E473Z9BB2	Tape & Reel
0.056 μ F	50	$\pm 20\%$	Z5U	12062E563M9BB2	Tape & Reel
0.056 μ F	50	+80% / -20%	Z5U	12062E563Z9BB2	Tape & Reel
0.068 μ F	50	$\pm 20\%$	Z5U	12062E683M9BB2	Tape & Reel
0.068 μ F	50	+80% / -20%	Z5U	12062E683Z9BB2	Tape & Reel
0.082 μ F	50	$\pm 20\%$	Z5U	12062E823M9BB2	Tape & Reel
0.082 μ F	50	+80% / -20%	Z5U	12062E823Z9BB2	Tape & Reel
0.1 μ F	50	$\pm 20\%$	Z5U	12062E104M9BB2	Tape & Reel
0.1 μ F	50	+80% / -20%	Z5U	12062E104Z9BB2	Tape & Reel
0.12 μ F	50	$\pm 20\%$	Z5U	12062E124M9BB2	Tape & Reel
0.12 μ F	50	+80% / -20%	Z5U	12062E124Z9BB2	Tape & Reel
0.15 μ F	50	$\pm 20\%$	Z5U	12062E154M9BB2	Tape & Reel
0.15 μ F	50	+80% / -20%	Z5U	12062E154Z9BB2	Tape & Reel
0.18 μ F	50	$\pm 20\%$	Z5U	12062E184M9BB2	Tape & Reel
0.18 μ F	50	+80% / -20%	Z5U	12062E184Z9BB2	Tape & Reel
0.22 μ F	50	$\pm 20\%$	Z5U	12062E224M9BB2	Tape & Reel
0.22 μ F	50	+80% / -20%	Z5U	12062E224Z9BB2	Tape & Reel
0.27 μ F	50	$\pm 20\%$	Z5U	12062E274M9BB2	Tape & Reel
0.27 μ F	50	+80% / -20%	Z5U	12062E274Z9BB2	Tape & Reel
0.33 μ F	50	$\pm 20\%$	Z5U	12062E334M9BB2	Tape & Reel
0.33 μ F	50	+80% / -20%	Z5U	12062E334Z9BB2	Tape & Reel

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	25	$\pm 20\%$	Y5V	12062F103M8BB0	Tape & Reel
0.010 μ F	25	+80%/ -20%	Y5V	12062F103Z8BB0	Tape & Reel
0.012 μ F	25	$\pm 20\%$	Y5V	12062F123M8BB0	Tape & Reel
0.012 μ F	25	+80%/ -20%	Y5V	12062F123Z8BB0	Tape & Reel
0.015 μ F	25	$\pm 20\%$	Y5V	12062F153M8BB0	Tape & Reel
0.015 μ F	25	+80%/ -20%	Y5V	12062F153Z8BB0	Tape & Reel
0.018 μ F	25	$\pm 20\%$	Y5V	12062F183M8BB0	Tape & Reel
0.018 μ F	25	+80%/ -20%	Y5V	12062F183Z8BB0	Tape & Reel
0.022 μ F	25	$\pm 20\%$	Y5V	12062F223M8BB0	Tape & Reel
0.022 μ F	25	+80%/ -20%	Y5V	12062F223Z8BB0	Tape & Reel
0.027 μ F	25	$\pm 20\%$	Y5V	12062F273M8BB0	Tape & Reel
0.027 μ F	25	+80%/ -20%	Y5V	12062F273Z8BB0	Tape & Reel
0.033 μ F	25	$\pm 20\%$	Y5V	12062F333M8BB0	Tape & Reel
0.033 μ F	25	+80%/ -20%	Y5V	12062F333Z8BB0	Tape & Reel
0.039 μ F	25	$\pm 20\%$	Y5V	12062F393M8BB0	Tape & Reel
0.039 μ F	25	+80%/ -20%	Y5V	12062F393Z8BB0	Tape & Reel
0.047 μ F	25	$\pm 20\%$	Y5V	12062F473M8BB0	Tape & Reel
0.047 μ F	25	+80%/ -20%	Y5V	12062F473Z8BB0	Tape & Reel
0.056 μ F	25	$\pm 20\%$	Y5V	12062F563M8BB0	Tape & Reel
0.056 μ F	25	+80%/ -20%	Y5V	12062F563Z8BB0	Tape & Reel
0.068 μ F	25	$\pm 20\%$	Y5V	12062F683M8BB0	Tape & Reel
0.068 μ F	25	+80%/ -20%	Y5V	12062F683Z8BB0	Tape & Reel
0.082 μ F	25	$\pm 20\%$	Y5V	12062F823M8BB0	Tape & Reel
0.082 μ F	25	+80%/ -20%	Y5V	12062F823Z8BB0	Tape & Reel
0.10 μ F	25	$\pm 20\%$	Y5V	12062F104M8BB0	Tape & Reel
0.10 μ F	25	+80%/ -20%	Y5V	12062F104Z8BB0	Tape & Reel
0.12 μ F	25	$\pm 20\%$	Y5V	12062F124M8BB0	Tape & Reel
0.12 μ F	25	+80%/ -20%	Y5V	12062F124Z8BB0	Tape & Reel
0.15 μ F	25	$\pm 20\%$	Y5V	12062F154M8BB0	Tape & Reel
0.15 μ F	25	+80%/ -20%	Y5V	12062F154Z8BB0	Tape & Reel
0.18 μ F	25	$\pm 20\%$	Y5V	12062F184M8BB0	Tape & Reel
0.18 μ F	25	+80%/ -20%	Y5V	12062F184Z8BB0	Tape & Reel
0.22 μ F	25	$\pm 20\%$	Y5V	12062F224M8BB0	Tape & Reel
0.22 μ F	25	+80%/ -20%	Y5V	12062F224Z8BB0	Tape & Reel
0.27 μ F	25	$\pm 20\%$	Y5V	12062F274M8BB0	Tape & Reel
0.27 μ F	25	+80%/ -20%	Y5V	12062F274Z8BB0	Tape & Reel
0.33 μ F	25	$\pm 20\%$	Y5V	12062F334M8BB0	Tape & Reel
0.33 μ F	25	+80%/ -20%	Y5V	12062F334Z8BB0	Tape & Reel
0.39 μ F	25	$\pm 20\%$	Y5V	12062F394M8BB0	Tape & Reel
0.39 μ F	25	+80%/ -20%	Y5V	12062F394Z8BB0	Tape & Reel
0.47 μ F	25	$\pm 20\%$	Y5V	12062F474M8BB0	Tape & Reel
0.47 μ F	25	+80%/ -20%	Y5V	12062F474Z8BB0	Tape & Reel
0.56 μ F	25	$\pm 20\%$	Y5V	12062F564M8BB0	Tape & Reel
0.56 μ F	25	+80%/ -20%	Y5V	12062F564Z8BB0	Tape & Reel
0.68 μ F	25	$\pm 20\%$	Y5V	12062F684M8BB0	Tape & Reel
0.68 μ F	25	+80%/ -20%	Y5V	12062F684Z8BB0	Tape & Reel
0.82 μ F	25	$\pm 20\%$	Y5V	12062F824M8BB0	Tape & Reel
0.82 μ F	25	+80%/ -20%	Y5V	12062F824Z8BB0	Tape & Reel
1.0 μ F	25	$\pm 20\%$	Y5V	12062F105M8BB0	Tape & Reel
1.0 μ F	25	+80%/ -20%	Y5V	12062F105Z8BB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1206 Dielectric: Y5V

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	50	$\pm 20\%$	Y5V	12062F103M9BB2	Tape & Reel
0.010 μ F	50	+80%/-20%	Y5V	12062F103Z9BB2	Tape & Reel
0.012 μ F	50	$\pm 20\%$	Y5V	12062F123M9BB2	Tape & Reel
0.012 μ F	50	+80%/-20%	Y5V	12062F123Z9BB2	Tape & Reel
0.015 μ F	50	$\pm 20\%$	Y5V	12062F153M9BB2	Tape & Reel
0.015 μ F	50	+80%/-20%	Y5V	12062F153Z9BB2	Tape & Reel
0.018 μ F	50	$\pm 20\%$	Y5V	12062F183M9BB2	Tape & Reel
0.018 μ F	50	+80%/-20%	Y5V	12062F183Z9BB2	Tape & Reel
0.022 μ F	50	$\pm 20\%$	Y5V	12062F223M9BB2	Tape & Reel
0.022 μ F	50	+80%/-20%	Y5V	12062F223Z9BB2	Tape & Reel
0.027 μ F	50	$\pm 20\%$	Y5V	12062F273M9BB2	Tape & Reel
0.027 μ F	50	+80%/-20%	Y5V	12062F273Z9BB2	Tape & Reel
0.033 μ F	50	$\pm 20\%$	Y5V	12062F333M9BB2	Tape & Reel
0.033 μ F	50	+80%/-20%	Y5V	12062F333Z9BB2	Tape & Reel
0.039 μ F	50	$\pm 20\%$	Y5V	12062F393M9BB2	Tape & Reel
0.039 μ F	50	+80%/-20%	Y5V	12062F393Z9BB2	Tape & Reel
0.047 μ F	50	$\pm 20\%$	Y5V	12062F473M9BB2	Tape & Reel
0.047 μ F	50	+80%/-20%	Y5V	12062F473Z9BB2	Tape & Reel
0.056 μ F	50	$\pm 20\%$	Y5V	12062F563M9BB2	Tape & Reel
0.056 μ F	50	+80%/-20%	Y5V	12062F563Z9BB2	Tape & Reel
0.068 μ F	50	$\pm 20\%$	Y5V	12062F683M9BB2	Tape & Reel
0.068 μ F	50	+80%/-20%	Y5V	12062F683Z9BB2	Tape & Reel
0.082 μ F	50	$\pm 20\%$	Y5V	12062F823M9BB2	Tape & Reel
0.082 μ F	50	+80%/-20%	Y5V	12062F823Z9BB2	Tape & Reel
0.1 μ F	50	$\pm 20\%$	Y5V	12062F104M9BB2	Tape & Reel
0.1 μ F	50	+80%/-20%	Y5V	12062F104Z9BB2	Tape & Reel
0.12 μ F	50	$\pm 20\%$	Y5V	12062F124M9BB2	Tape & Reel
0.12 μ F	50	+80%/-20%	Y5V	12062F124Z9BB2	Tape & Reel
0.15 μ F	50	$\pm 20\%$	Y5V	12062F154M9BB2	Tape & Reel
0.15 μ F	50	+80%/-20%	Y5V	12062F154Z9BB2	Tape & Reel
0.18 μ F	50	$\pm 20\%$	Y5V	12062F184M9BB2	Tape & Reel
0.18 μ F	50	+80%/-20%	Y5V	12062F184Z9BB2	Tape & Reel
0.22 μ F	50	$\pm 20\%$	Y5V	12062F224M9BB2	Tape & Reel
0.22 μ F	50	+80%/-20%	Y5V	12062F224Z9BB2	Tape & Reel
0.27 μ F	50	$\pm 20\%$	Y5V	12062F274M9BB2	Tape & Reel
0.27 μ F	50	+80%/-20%	Y5V	12062F274Z9BB2	Tape & Reel
0.33 μ F	50	$\pm 20\%$	Y5V	12062F334M9BB2	Tape & Reel
0.33 μ F	50	+80%/-20%	Y5V	12062F334Z9BB2	Tape & Reel
0.39 μ F	50	$\pm 20\%$	Y5V	12062F394M9BB2	Tape & Reel
0.39 μ F	50	+80%/-20%	Y5V	12062F394Z9BB2	Tape & Reel
0.47 μ F	50	$\pm 20\%$	Y5V	12062F474M9BB2	Tape & Reel
0.47 μ F	50	+80%/-20%	Y5V	12062F474Z9BB2	Tape & Reel
0.56 μ F	50	$\pm 20\%$	Y5V	12062F564M9BB2	Tape & Reel
0.56 μ F	50	+80%/-20%	Y5V	12062F564Z9BB2	Tape & Reel
0.68 μ F	50	$\pm 20\%$	Y5V	12062F684M9BB2	Tape & Reel
0.68 μ F	50	+80%/-20%	Y5V	12062F684Z9BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
47 pF	50	±5%	C0G	1210CG470J9BB2	Tape & Reel
47 pF	50	±10%	C0G	1210CG470K9BB2	Tape & Reel
56 pF	50	±5%	C0G	1210CG560J9BB2	Tape & Reel
56 pF	50	±10%	C0G	1210CG560K9BB2	Tape & Reel
68 pF	50	±5%	C0G	1210CG680J9BB2	Tape & Reel
68 pF	50	±10%	C0G	1210CG680K9BB2	Tape & Reel
82 pF	50	±5%	C0G	1210CG820J9BB2	Tape & Reel
82 pF	50	±10%	C0G	1210CG820K9BB2	Tape & Reel
100 pF	50	±5%	C0G	1210CG101J9BB2	Tape & Reel
100 pF	50	±10%	C0G	1210CG101K9BB2	Tape & Reel
120 pF	50	±5%	C0G	1210CG121J9BB2	Tape & Reel
120 pF	50	±10%	C0G	1210CG121K9BB2	Tape & Reel
150 pF	50	±5%	C0G	1210CG151J9BB2	Tape & Reel
150 pF	50	±10%	C0G	1210CG151K9BB2	Tape & Reel
180 pF	50	±5%	C0G	1210CG181J9BB2	Tape & Reel
180 pF	50	±10%	C0G	1210CG181K9BB2	Tape & Reel
220 pF	50	±5%	C0G	1210CG221J9BB2	Tape & Reel
220 pF	50	±10%	C0G	1210CG221K9BB2	Tape & Reel
270 pF	50	±5%	C0G	1210CG271J9BB2	Tape & Reel
270 pF	50	±10%	C0G	1210CG271K9BB2	Tape & Reel
330 pF	50	±5%	C0G	1210CG331J9BB2	Tape & Reel
330 pF	50	±10%	C0G	1210CG331K9BB2	Tape & Reel
390 pF	50	±5%	C0G	1210CG391J9BB2	Tape & Reel
390 pF	50	±10%	C0G	1210CG391K9BB2	Tape & Reel
470 pF	50	±5%	C0G	1210CG471J9BB2	Tape & Reel
470 pF	50	±10%	C0G	1210CG471K9BB2	Tape & Reel
560 pF	50	±5%	C0G	1210CG561J9BB2	Tape & Reel
560 pF	50	±10%	C0G	1210CG561K9BB2	Tape & Reel
680 pF	50	±5%	C0G	1210CG681J9BB2	Tape & Reel
680 pF	50	±10%	C0G	1210CG681K9BB2	Tape & Reel
820 pF	50	±5%	C0G	1210CG821J9BB2	Tape & Reel
820 pF	50	±10%	C0G	1210CG821K9BB2	Tape & Reel
1000 pF	50	±5%	C0G	1210CG102J9BB2	Tape & Reel
1000 pF	50	±10%	C0G	1210CG102K9BB2	Tape & Reel
1200 pF	50	±5%	C0G	1210CG122J9BB2	Tape & Reel
1200 pF	50	±10%	C0G	1210CG122K9BB2	Tape & Reel
1500 pF	50	±5%	C0G	1210CG152J9BB2	Tape & Reel
1500 pF	50	±10%	C0G	1210CG152K9BB2	Tape & Reel
1800 pF	50	±5%	C0G	1210CG182J9BB2	Tape & Reel
1800 pF	50	±10%	C0G	1210CG182K9BB2	Tape & Reel
2200 pF	50	±5%	C0G	1210CG222J9BB2	Tape & Reel
2200 pF	50	±10%	C0G	1210CG222K9BB2	Tape & Reel
2700 pF	50	±5%	C0G	1210CG272J9BB2	Tape & Reel
2700 pF	50	±10%	C0G	1210CG272K9BB2	Tape & Reel
3300 pF	50	±5%	C0G	1210CG332J9BB2	Tape & Reel
3300 pF	50	±10%	C0G	1210CG332K9BB2	Tape & Reel
3900 pF	50	±5%	C0G	1210CG392J9BB2	Tape & Reel
3900 pF	50	±10%	C0G	1210CG392K9BB2	Tape & Reel
4700 pF	50	±5%	C0G	1210CG472J9BB2	Tape & Reel
4700 pF	50	±10%	C0G	1210CG472K9BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1210 Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
47 pF	100	±5%	C0G	1210CG470J0BB2	Tape & Reel
47 pF	100	±10%	C0G	1210CG470K0BB2	Tape & Reel
56 pF	100	±5%	C0G	1210CG560J0BB2	Tape & Reel
56 pF	100	±10%	C0G	1210CG560K0BB2	Tape & Reel
68 pF	100	±5%	C0G	1210CG680J0BB2	Tape & Reel
68 pF	100	±10%	C0G	1210CG680K0BB2	Tape & Reel
82 pF	100	±5%	C0G	1210CG820J0BB2	Tape & Reel
82 pF	100	±10%	C0G	1210CG820K0BB2	Tape & Reel
100 pF	100	±5%	C0G	1210CG101J0BB2	Tape & Reel
100 pF	100	±10%	C0G	1210CG101K0BB2	Tape & Reel
120 pF	100	±5%	C0G	1210CG121J0BB2	Tape & Reel
120 pF	100	±10%	C0G	1210CG121K0BB2	Tape & Reel
150 pF	100	±5%	C0G	1210CG151J0BB2	Tape & Reel
150 pF	100	±10%	C0G	1210CG151K0BB2	Tape & Reel
180 pF	100	±5%	C0G	1210CG181J0BB2	Tape & Reel
180 pF	100	±10%	C0G	1210CG181K0BB2	Tape & Reel
220 pF	100	±5%	C0G	1210CG221J0BB2	Tape & Reel
220 pF	100	±10%	C0G	1210CG221K0BB2	Tape & Reel
270 pF	100	±5%	C0G	1210CG271J0BB2	Tape & Reel
270 pF	100	±10%	C0G	1210CG271K0BB2	Tape & Reel
330 pF	100	±5%	C0G	1210CG331J0BB2	Tape & Reel
330 pF	100	±10%	C0G	1210CG331K0BB2	Tape & Reel
390 pF	100	±5%	C0G	1210CG391J0BB2	Tape & Reel
390 pF	100	±10%	C0G	1210CG391K0BB2	Tape & Reel
470 pF	100	±5%	C0G	1210CG471J0BB2	Tape & Reel
470 pF	100	±10%	C0G	1210CG471K0BB2	Tape & Reel
560 pF	100	±5%	C0G	1210CG561J0BB2	Tape & Reel
560 pF	100	±10%	C0G	1210CG561K0BB2	Tape & Reel
680 pF	100	±5%	C0G	1210CG681J0BB2	Tape & Reel
680 pF	100	±10%	C0G	1210CG681K0BB2	Tape & Reel
820 pF	100	±5%	C0G	1210CG821J0BB2	Tape & Reel
820 pF	100	±10%	C0G	1210CG821K0BB2	Tape & Reel
1000 pF	100	±5%	C0G	1210CG102J0BB2	Tape & Reel
1000 pF	100	±10%	C0G	1210CG102K0BB2	Tape & Reel
1200 pF	100	±5%	C0G	1210CG122J0BB2	Tape & Reel
1200 pF	100	±10%	C0G	1210CG122K0BB2	Tape & Reel
1500 pF	100	±5%	C0G	1210CG152J0BB2	Tape & Reel
1500 pF	100	±10%	C0G	1210CG152K0BB2	Tape & Reel
1800 pF	100	±5%	C0G	1210CG182J0BB2	Tape & Reel
1800 pF	100	±10%	C0G	1210CG182K0BB2	Tape & Reel
2200 pF	100	±5%	C0G	1210CG222J0BB2	Tape & Reel
2200 pF	100	±10%	C0G	1210CG222K0BB2	Tape & Reel
2700 pF	100	±5%	C0G	1210CG272J0BB2	Tape & Reel
2700 pF	100	±10%	C0G	1210CG272K0BB2	Tape & Reel
3300 pF	100	±5%	C0G	1210CG332J0BB2	Tape & Reel
3300 pF	100	±10%	C0G	1210CG332K0BB2	Tape & Reel
3900 pF	100	±5%	C0G	1210CG392J0BB2	Tape & Reel
3900 pF	100	±10%	C0G	1210CG392K0BB2	Tape & Reel
4700 pF	100	±5%	C0G	1210CG472J0BB2	Tape & Reel
4700 pF	100	±10%	C0G	1210CG472K0BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
47 pF	200	±5%	C0G	1210CG470JBBB0	Tape & Reel
47 pF	200	±10%	C0G	1210CG470KBBB0	Tape & Reel
56 pF	200	±5%	C0G	1210CG560JBBB0	Tape & Reel
56 pF	200	±10%	C0G	1210CG560KBBB0	Tape & Reel
68 pF	200	±5%	C0G	1210CG680JBBB0	Tape & Reel
68 pF	200	±10%	C0G	1210CG680KBBB0	Tape & Reel
82 pF	200	±5%	C0G	1210CG820JBBB0	Tape & Reel
82 pF	200	±10%	C0G	1210CG820KBBB0	Tape & Reel
100 pF	200	±5%	C0G	1210CG101JBBB0	Tape & Reel
100 pF	200	±10%	C0G	1210CG101KBBB0	Tape & Reel
120 pF	200	±5%	C0G	1210CG121JBBB0	Tape & Reel
120 pF	200	±10%	C0G	1210CG121KBBB0	Tape & Reel
150 pF	200	±5%	C0G	1210CG151JBBB0	Tape & Reel
150 pF	200	±10%	C0G	1210CG151KBBB0	Tape & Reel
180 pF	200	±5%	C0G	1210CG181JBBB0	Tape & Reel
180 pF	200	±10%	C0G	1210CG181KBBB0	Tape & Reel
220 pF	200	±5%	C0G	1210CG221JBBB0	Tape & Reel
220 pF	200	±10%	C0G	1210CG221KBBB0	Tape & Reel
270 pF	200	±5%	C0G	1210CG271JBBB0	Tape & Reel
270 pF	200	±10%	C0G	1210CG271KBBB0	Tape & Reel
330 pF	200	±5%	C0G	1210CG331JBBB0	Tape & Reel
330 pF	200	±10%	C0G	1210CG331KBBB0	Tape & Reel
390 pF	200	±5%	C0G	1210CG391JBBB0	Tape & Reel
390 pF	200	±10%	C0G	1210CG391KBBB0	Tape & Reel
470 pF	200	±5%	C0G	1210CG471JBBB0	Tape & Reel
470 pF	200	±10%	C0G	1210CG471KBBB0	Tape & Reel
560 pF	200	±5%	C0G	1210CG561JBBB0	Tape & Reel
560 pF	200	±10%	C0G	1210CG561KBBB0	Tape & Reel
680 pF	200	±5%	C0G	1210CG681JBBB0	Tape & Reel
680 pF	200	±10%	C0G	1210CG681KBBB0	Tape & Reel
820 pF	200	±5%	C0G	1210CG821JBBB0	Tape & Reel
820 pF	200	±10%	C0G	1210CG821KBBB0	Tape & Reel
1000 pF	200	±5%	C0G	1210CG102JBBB0	Tape & Reel
1000 pF	200	±10%	C0G	1210CG102KBBB0	Tape & Reel
47 pF	500	±5%	C0G	1210CG470JDBB0	Tape & Reel
47 pF	500	±10%	C0G	1210CG470KDBB0	Tape & Reel
56 pF	500	±5%	C0G	1210CG560JDBB0	Tape & Reel
56 pF	500	±10%	C0G	1210CG560KDBB0	Tape & Reel
68 pF	500	±5%	C0G	1210CG680JDBB0	Tape & Reel
68 pF	500	±10%	C0G	1210CG680KDBB0	Tape & Reel
82 pF	500	±5%	C0G	1210CG820JDBB0	Tape & Reel
82 pF	500	±10%	C0G	1210CG820KDBB0	Tape & Reel
100 pF	500	±5%	C0G	1210CG101JDBB0	Tape & Reel
100 pF	500	±10%	C0G	1210CG101KDBB0	Tape & Reel
120 pF	500	±5%	C0G	1210CG121JDBB0	Tape & Reel
120 pF	500	±10%	C0G	1210CG121KDBB0	Tape & Reel
150 pF	500	±5%	C0G	1210CG151JDBB0	Tape & Reel
150 pF	500	±10%	C0G	1210CG151KDBB0	Tape & Reel
180 pF	500	±5%	C0G	1210CG181JDBB0	Tape & Reel
180 pF	500	±10%	C0G	1210CG181KDBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

Size: 1210 Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
220 pF	500	±5%	C0G	1210CG221JDBB0	Tape & Reel
220 pF	500	±10%	C0G	1210CG221KDBB0	Tape & Reel
270 pF	500	±5%	C0G	1210CG271JDBB0	Tape & Reel
270 pF	500	±10%	C0G	1210CG271KDBB0	Tape & Reel
330 pF	500	±5%	C0G	1210CG331JDBB0	Tape & Reel
330 pF	500	±10%	C0G	1210CG331KDBB0	Tape & Reel
390 pF	500	±5%	C0G	1210CG391JDBB0	Tape & Reel
390 pF	500	±10%	C0G	1210CG391KDBB0	Tape & Reel
470 pF	500	±5%	C0G	1210CG471JDBB0	Tape & Reel
470 pF	500	±10%	C0G	1210CG471KDBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
2200 pF	50	±10%	X7R	12102R222K9BB2	Tape & Reel
2200 pF	50	±20%	X7R	12102R222M9BB2	Tape & Reel
2700 pF	50	±10%	X7R	12102R272K9BB2	Tape & Reel
2700 pF	50	±20%	X7R	12102R272M9BB2	Tape & Reel
3300 pF	50	±10%	X7R	12102R332K9BB2	Tape & Reel
3300 pF	50	±20%	X7R	12102R332M9BB2	Tape & Reel
3900 pF	50	±10%	X7R	12102R392K9BB2	Tape & Reel
3900 pF	50	±20%	X7R	12102R392M9BB2	Tape & Reel
4700 pF	50	±10%	X7R	12102R472K9BB2	Tape & Reel
4700 pF	50	±20%	X7R	12102R472M9BB2	Tape & Reel
5600 pF	50	±10%	X7R	12102R562K9BB2	Tape & Reel
5600 pF	50	±20%	X7R	12102R562M9BB2	Tape & Reel
6800 pF	50	±10%	X7R	12102R682K9BB2	Tape & Reel
6800 pF	50	±20%	X7R	12102R682M9BB2	Tape & Reel
8200 pF	50	±10%	X7R	12102R822K9BB2	Tape & Reel
8200 pF	50	±20%	X7R	12102R822M9BB2	Tape & Reel
0.010 µF	50	±10%	X7R	12102R103K9BB2	Tape & Reel
0.010 µF	50	±20%	X7R	12102R103M9BB2	Tape & Reel
0.012 µF	50	±10%	X7R	12102R123K9BB2	Tape & Reel
0.012 µF	50	±20%	X7R	12102R123M9BB2	Tape & Reel
0.015 µF	50	±10%	X7R	12102R153K9BB2	Tape & Reel
0.015 µF	50	±20%	X7R	12102R153M9BB2	Tape & Reel
0.018 µF	50	±10%	X7R	12102R183K9BB2	Tape & Reel
0.018 µF	50	±20%	X7R	12102R183M9BB2	Tape & Reel
0.022 µF	50	±10%	X7R	12102R223K9BB2	Tape & Reel
0.022 µF	50	±20%	X7R	12102R223M9BB2	Tape & Reel
0.027 µF	50	±10%	X7R	12102R273K9BB2	Tape & Reel
0.027 µF	50	±20%	X7R	12102R273M9BB2	Tape & Reel
0.033 µF	50	±10%	X7R	12102R333K9BB2	Tape & Reel
0.033 µF	50	±20%	X7R	12102R333M9BB2	Tape & Reel
0.039 µF	50	±10%	X7R	12102R393K9BB2	Tape & Reel
0.039 µF	50	±20%	X7R	12102R393M9BB2	Tape & Reel
0.047 µF	50	±10%	X7R	12102R473K9BB2	Tape & Reel
0.047 µF	50	±20%	X7R	12102R473M9BB2	Tape & Reel
0.056 µF	50	±10%	X7R	12102R563K9BB2	Tape & Reel
0.056 µF	50	±20%	X7R	12102R563M9BB2	Tape & Reel
0.068 µF	50	±10%	X7R	12102R683K9BB2	Tape & Reel
0.068 µF	50	±20%	X7R	12102R683M9BB2	Tape & Reel
0.082 µF	50	±10%	X7R	12102R823K9BB2	Tape & Reel
0.082 µF	50	±20%	X7R	12102R823M9BB2	Tape & Reel
0.1 µF	50	±10%	X7R	12102R104K9BB2	Tape & Reel
0.1 µF	50	±20%	X7R	12102R104M9BB2	Tape & Reel
0.12 µF	50	±10%	X7R	12102R124K9BB2	Tape & Reel
0.12 µF	50	±20%	X7R	12102R124M9BB2	Tape & Reel
0.15 µF	50	±10%	X7R	12102R154K9BB2	Tape & Reel
0.15 µF	50	±20%	X7R	12102R154M9BB2	Tape & Reel
0.18 µF	50	±10%	X7R	12102R184K9BB2	Tape & Reel
0.18 µF	50	±20%	X7R	12102R184M9BB2	Tape & Reel
0.22 µF	50	±10%	X7R	12102R224K9BB2	Tape & Reel
0.22 µF	50	±20%	X7R	12102R224M9BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

PHILIPS

Size: 1210 Dielectric: X7R

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
2200 pF	100	±10%	X7R	12102R222K0BB2	Tape & Reel
2200 pF	100	±20%	X7R	12102R222M0BB2	Tape & Reel
2700 pF	100	±10%	X7R	12102R272K0BB2	Tape & Reel
2700 pF	100	±20%	X7R	12102R272M0BB2	Tape & Reel
3300 pF	100	±10%	X7R	12102R332K0BB2	Tape & Reel
3300 pF	100	±20%	X7R	12102R332M0BB2	Tape & Reel
3900 pF	100	±10%	X7R	12102R392K0BB2	Tape & Reel
3900 pF	100	±20%	X7R	12102R392M0BB2	Tape & Reel
4700 pF	100	±10%	X7R	12102R472K0BB2	Tape & Reel
4700 pF	100	±20%	X7R	12102R472M0BB2	Tape & Reel
5600 pF	100	±10%	X7R	12102R562K0BB2	Tape & Reel
5600 pF	100	±20%	X7R	12102R562M0BB2	Tape & Reel
6800 pF	100	±10%	X7R	12102R682K0BB2	Tape & Reel
6800 pF	100	±20%	X7R	12102R682M0BB2	Tape & Reel
8200 pF	100	±10%	X7R	12102R822K0BB2	Tape & Reel
8200 pF	100	±20%	X7R	12102R822M0BB2	Tape & Reel
0.010 µF	100	±10%	X7R	12102R103K0BB2	Tape & Reel
0.010 µF	100	±20%	X7R	12102R103M0BB2	Tape & Reel
0.012 µF	100	±10%	X7R	12102R123K0BB2	Tape & Reel
0.012 µF	100	±20%	X7R	12102R123M0BB2	Tape & Reel
0.015 µF	100	±10%	X7R	12102R153K0BB2	Tape & Reel
0.015 µF	100	±20%	X7R	12102R153M0BB2	Tape & Reel
0.018 µF	100	±10%	X7R	12102R183K0BB2	Tape & Reel
0.018 µF	100	±20%	X7R	12102R183M0BB2	Tape & Reel
0.022 µF	100	±10%	X7R	12102R223K0BB2	Tape & Reel
0.022 µF	100	±20%	X7R	12102R223M0BB2	Tape & Reel
0.027 µF	100	±10%	X7R	12102R273K0BB2	Tape & Reel
0.027 µF	100	±20%	X7R	12102R273M0BB2	Tape & Reel
0.033 µF	100	±10%	X7R	12102R333K0BB2	Tape & Reel
0.033 µF	100	±20%	X7R	12102R333M0BB2	Tape & Reel
0.039 µF	100	±10%	X7R	12102R393K0BB2	Tape & Reel
0.039 µF	100	±20%	X7R	12102R393M0BB2	Tape & Reel
0.047 µF	100	±10%	X7R	12102R473K0BB2	Tape & Reel
0.047 µF	100	±20%	X7R	12102R473M0BB2	Tape & Reel
0.056 µF	100	±10%	X7R	12102R563K0BB2	Tape & Reel
0.056 µF	100	±20%	X7R	12102R563M0BB2	Tape & Reel
0.068 µF	100	±10%	X7R	12102R683K0BB2	Tape & Reel
0.068 µF	100	±20%	X7R	12102R683M0BB2	Tape & Reel
2200 pF	200	±10%	X7R	12102R222KBBB0	Tape & Reel
2200 pF	200	±20%	X7R	12102R222MBBB0	Tape & Reel
2700 pF	200	±10%	X7R	12102R272KBBB0	Tape & Reel
2700 pF	200	±20%	X7R	12102R272MBBB0	Tape & Reel
3300 pF	200	±10%	X7R	12102R332KBBB0	Tape & Reel
3300 pF	200	±20%	X7R	12102R332MBBB0	Tape & Reel
3900 pF	200	±10%	X7R	12102R392KBBB0	Tape & Reel
3900 pF	200	±20%	X7R	12102R392MBBB0	Tape & Reel
4700 pF	200	±10%	X7R	12102R472KBBB0	Tape & Reel
4700 pF	200	±20%	X7R	12102R472MBBB0	Tape & Reel
5600 pF	200	±10%	X7R	12102R562KBBB0	Tape & Reel
5600 pF	200	±20%	X7R	12102R562MBBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
6800 pF	200	±10%	X7R	12102R682KBBB0	Tape & Reel
6800 pF	200	±20%	X7R	12102R682MBBB0	Tape & Reel
8200 pF	200	±10%	X7R	12102R822KBBB0	Tape & Reel
8200 pF	200	±20%	X7R	12102R822MBBB0	Tape & Reel
0.010 µF	200	±10%	X7R	12102R103KBBB0	Tape & Reel
0.010 µF	200	±20%	X7R	12102R103MBBB0	Tape & Reel
0.012 µF	200	±10%	X7R	12102R123KBBB0	Tape & Reel
0.012 µF	200	±20%	X7R	12102R123MBBB0	Tape & Reel
0.015 µF	200	±10%	X7R	12102R153KBBB0	Tape & Reel
0.015 µF	200	±20%	X7R	12102R153MBBB0	Tape & Reel
0.018 µF	200	±10%	X7R	12102R183KBBB0	Tape & Reel
0.018 µF	200	±20%	X7R	12102R183MBBB0	Tape & Reel
0.022 µF	200	±10%	X7R	12102R223KBBB0	Tape & Reel
0.022 µF	200	±20%	X7R	12102R223MBBB0	Tape & Reel
0.027 µF	200	±10%	X7R	12102R273KBBB0	Tape & Reel
0.027 µF	200	±20%	X7R	12102R273MBBB0	Tape & Reel
0.033 µF	200	±10%	X7R	12102R333KBBB0	Tape & Reel
0.033 µF	200	±20%	X7R	12102R333MBBB0	Tape & Reel
0.039 µF	200	±10%	X7R	12102R393KBBB0	Tape & Reel
0.039 µF	200	±20%	X7R	12102R393MBBB0	Tape & Reel
0.047 µF	200	±10%	X7R	12102R473KBBB0	Tape & Reel
0.047 µF	200	±20%	X7R	12102R473MBBB0	Tape & Reel
1500 pF	500	±10%	X7R	12102R152KDBB0	Tape & Reel
1500 pF	500	±20%	X7R	12102R152MDBB0	Tape & Reel
1800 pF	500	±10%	X7R	12102R182KDBB0	Tape & Reel
1800 pF	500	±20%	X7R	12102R152MDBB0	Tape & Reel
2200 pF	500	±10%	X7R	12102R222KDBB0	Tape & Reel
2200 pF	500	±20%	X7R	12102R222MDBB0	Tape & Reel
2700 pF	500	±10%	X7R	12102R272KDBB0	Tape & Reel
2700 pF	500	±20%	X7R	12102R272MDBB0	Tape & Reel
3300 pF	500	±10%	X7R	12102R332KDBB0	Tape & Reel
3300 pF	500	±20%	X7R	12102R332MDBB0	Tape & Reel
3900 pF	500	±10%	X7R	12102R392KDBB0	Tape & Reel
3900 pF	500	±20%	X7R	12102R392MDBB0	Tape & Reel
4700 pF	500	±10%	X7R	12102R472KDBB0	Tape & Reel
4700 pF	500	±20%	X7R	12102R472MDBB0	Tape & Reel
5600 pF	500	±10%	X7R	12102R562KDBB0	Tape & Reel
5600 pF	500	±20%	X7R	12102R562MDBB0	Tape & Reel
6800 pF	500	±10%	X7R	12102R682KDBB0	Tape & Reel
6800 pF	500	±20%	X7R	12102R682MDBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

PHILIPS

Size: 1210 Dielectric: Z5U

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.010 μ F	50	$\pm 20\%$	Z5U	12102E103M9BB2	Tape & Reel
0.010 μ F	50	+80%/ -20%	Z5U	12102E103Z9BB2	Tape & Reel
0.012 μ F	50	$\pm 20\%$	Z5U	12102E123M9BB2	Tape & Reel
0.012 μ F	50	+80%/ -20%	Z5U	12102E123Z9BB2	Tape & Reel
0.015 μ F	50	$\pm 20\%$	Z5U	12102E153M9BB2	Tape & Reel
0.015 μ F	50	+80%/ -20%	Z5U	12102E153Z9BB2	Tape & Reel
0.018 μ F	50	$\pm 20\%$	Z5U	12102E183M9BB2	Tape & Reel
0.018 μ F	50	+80%/ -20%	Z5U	12102E183Z9BB2	Tape & Reel
0.022 μ F	50	$\pm 20\%$	Z5U	12102E223M9BB2	Tape & Reel
0.022 μ F	50	+80%/ -20%	Z5U	12102E223Z9BB2	Tape & Reel
0.027 μ F	50	$\pm 20\%$	Z5U	12102E273M9BB2	Tape & Reel
0.027 μ F	50	+80%/ -20%	Z5U	12102E273Z9BB2	Tape & Reel
0.033 μ F	50	$\pm 20\%$	Z5U	12102E333M9BB2	Tape & Reel
0.033 μ F	50	+80%/ -20%	Z5U	12102E333Z9BB2	Tape & Reel
0.039 μ F	50	$\pm 20\%$	Z5U	12102E393M9BB2	Tape & Reel
0.039 μ F	50	+80%/ -20%	Z5U	12102E393Z9BB2	Tape & Reel
0.047 μ F	50	$\pm 20\%$	Z5U	12102E473M9BB2	Tape & Reel
0.047 μ F	50	+80%/ -20%	Z5U	12102E473Z9BB2	Tape & Reel
0.056 μ F	50	$\pm 20\%$	Z5U	12102E563M9BB2	Tape & Reel
0.056 μ F	50	+80%/ -20%	Z5U	12102E563Z9BB2	Tape & Reel
0.068 μ F	50	$\pm 20\%$	Z5U	12102E683M9BB2	Tape & Reel
0.068 μ F	50	+80%/ -20%	Z5U	12102E683Z9BB2	Tape & Reel
0.082 μ F	50	$\pm 20\%$	Z5U	12102E823M9BB2	Tape & Reel
0.082 μ F	50	+80%/ -20%	Z5U	12102E823Z9BB2	Tape & Reel
0.1 μ F	50	$\pm 20\%$	Z5U	12102E104M9BB2	Tape & Reel
0.1 μ F	50	+80%/ -20%	Z5U	12102E104Z9BB2	Tape & Reel
0.12 μ F	50	$\pm 20\%$	Z5U	12102E124M9BB2	Tape & Reel
0.12 μ F	50	+80%/ -20%	Z5U	12102E124Z9BB2	Tape & Reel
0.15 μ F	50	$\pm 20\%$	Z5U	12102E154M9BB2	Tape & Reel
0.15 μ F	50	+80%/ -20%	Z5U	12102E154Z9BB2	Tape & Reel
0.18 μ F	50	$\pm 20\%$	Z5U	12102E184M9BB2	Tape & Reel
0.18 μ F	50	+80%/ -20%	Z5U	12102E184Z9BB2	Tape & Reel
0.22 μ F	50	$\pm 20\%$	Z5U	12102E224M9BB2	Tape & Reel
0.22 μ F	50	+80%/ -20%	Z5U	12102E224Z9BB2	Tape & Reel
0.27 μ F	50	$\pm 20\%$	Z5U	12102E274M9BB2	Tape & Reel
0.27 μ F	50	+80%/ -20%	Z5U	12102E274Z9BB2	Tape & Reel
0.33 μ F	50	$\pm 20\%$	Z5U	12102E334M9BB2	Tape & Reel
0.33 μ F	50	+80%/ -20%	Z5U	12102E334Z9BB2	Tape & Reel
0.39 μ F	50	$\pm 20\%$	Z5U	12102E394M9BB2	Tape & Reel
0.39 μ F	50	+80%/ -20%	Z5U	12102E394Z9BB2	Tape & Reel
0.47 μ F	50	$\pm 20\%$	Z5U	12102E474M9BB2	Tape & Reel
0.47 μ F	50	+80%/ -20%	Z5U	12102E474Z9BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.1 μ F	50	$\pm 20\%$	Y5V	12102F104M9BB2	Tape & Reel
0.1 μ F	50	+80% / -20%	Y5V	12102F104Z9BB2	Tape & Reel
0.15 μ F	50	$\pm 20\%$	Y5V	12102F154M9BB2	Tape & Reel
0.15 μ F	50	+80% / -20%	Y5V	12102F154Z9BB2	Tape & Reel
0.22 μ F	50	$\pm 20\%$	Y5V	12102F224M9BB2	Tape & Reel
0.22 μ F	50	+80% / -20%	Y5V	12102F224Z9BB2	Tape & Reel
0.33 μ F	50	$\pm 20\%$	Y5V	12102F334M9BB2	Tape & Reel
0.33 μ F	50	+80% / -20%	Y5V	12102F334Z9BB2	Tape & Reel
0.47 μ F	50	$\pm 20\%$	Y5V	12102F474M9BB2	Tape & Reel
0.47 μ F	50	+80% / -20%	Y5V	12102F474Z9BB2	Tape & Reel
0.68 μ F	50	$\pm 20\%$	Y5V	12102F684M9BB2	Tape & Reel
0.68 μ F	50	+80% / -20%	Y5V	12102F684Z9BB2	Tape & Reel
1.0 μ F	50	$\pm 20\%$	Y5V	12102F105M9BB2	Tape & Reel
1.0 μ F	50	+80% / -20%	Y5V	12102F105Z9BB2	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

PHILIPS

Size: 1812 Dielectric: C0G

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
330 pF	50	±5%	C0G	1812CG331J9BB2	Tape & Reel
330 pF	50	±10%	C0G	1812CG331K9BB2	Tape & Reel
390 pF	50	±5%	C0G	1812CG391J9BB2	Tape & Reel
390 pF	50	±10%	C0G	1812CG391K9BB2	Tape & Reel
470 pF	50	±5%	C0G	1812CG471J9BB2	Tape & Reel
470 pF	50	±10%	C0G	1812CG471K9BB2	Tape & Reel
560 pF	50	±5%	C0G	1812CG561J9BB2	Tape & Reel
560 pF	50	±10%	C0G	1812CG561K9BB2	Tape & Reel
680 pF	50	±5%	C0G	1812CG681J9BB2	Tape & Reel
680 pF	50	±10%	C0G	1812CG681K9BB2	Tape & Reel
820 pF	50	±5%	C0G	1812CG821J9BB2	Tape & Reel
820 pF	50	±10%	C0G	1812CG821K9BB2	Tape & Reel
1000 pF	50	±5%	C0G	1812CG102J9BB2	Tape & Reel
1000 pF	50	±10%	C0G	1812CG102K9BB2	Tape & Reel
1200 pF	50	±5%	C0G	1812CG122J9BB2	Tape & Reel
1200 pF	50	±10%	C0G	1812CG122K9BB2	Tape & Reel
1500 pF	50	±5%	C0G	1812CG152J9BB2	Tape & Reel
1500 pF	50	±10%	C0G	1812CG152K9BB2	Tape & Reel
1800 pF	50	±5%	C0G	1812CG182J9BB2	Tape & Reel
1800 pF	50	±10%	C0G	1812CG182K9BB2	Tape & Reel
2200 pF	50	±5%	C0G	1812CG202J9BB2	Tape & Reel
2200 pF	50	±10%	C0G	1812CG202K9BB2	Tape & Reel
2700 pF	50	±5%	C0G	1812CG272J9BB2	Tape & Reel
2700 pF	50	±10%	C0G	1812CG272K9BB2	Tape & Reel
3300 pF	50	±5%	C0G	1812CG332J9BB2	Tape & Reel
3300 pF	50	±10%	C0G	1812CG332K9BB2	Tape & Reel
3900 pF	50	±5%	C0G	1812CG392J9BB2	Tape & Reel
3900 pF	50	±10%	C0G	1812CG392K9BB2	Tape & Reel
4700 pF	50	±5%	C0G	1812CG472J9BB2	Tape & Reel
4700 pF	50	±10%	C0G	1812CG472K9BB2	Tape & Reel
5600 pF	50	±5%	C0G	1812CG562J9BB2	Tape & Reel
5600 pF	50	±10%	C0G	1812CG562K9BB2	Tape & Reel
330 pF	200	±5%	C0G	1812CG331JBBB0	Tape & Reel
330 pF	200	±10%	C0G	1812CG331KBBB0	Tape & Reel
390 pF	200	±5%	C0G	1812CG391JBBB0	Tape & Reel
390 pF	200	±10%	C0G	1812CG391KBBB0	Tape & Reel
470 pF	200	±5%	C0G	1812CG471JBBB0	Tape & Reel
470 pF	200	±10%	C0G	1812CG471KBBB0	Tape & Reel
560 pF	200	±5%	C0G	1812CG561JBBB0	Tape & Reel
560 pF	200	±10%	C0G	1812CG561KBBB0	Tape & Reel
680 pF	200	±5%	C0G	1812CG681JBBB0	Tape & Reel
680 pF	200	±10%	C0G	1812CG681KBBB0	Tape & Reel
820 pF	200	±5%	C0G	1812CG821JBBB0	Tape & Reel
820 pF	200	±10%	C0G	1812CG821KBBB0	Tape & Reel
1000 pF	200	±5%	C0G	1812CG102JBBB0	Tape & Reel
1000 pF	200	±10%	C0G	1812CG102KBBB0	Tape & Reel
1200 pF	200	±5%	C0G	1812CG122JBBB0	Tape & Reel
1200 pF	200	±10%	C0G	1812CG122KBBB0	Tape & Reel
1500 pF	200	±5%	C0G	1812CG152JBBB0	Tape & Reel
1500 pF	200	±10%	C0G	1812CG152KBBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
330 pF	500	±5%	C0G	1812CG331JDBB0	Tape & Reel
330 pF	500	±10%	C0G	1812CG331KDBB0	Tape & Reel
390 pF	500	±5%	C0G	1812CG391JDBB0	Tape & Reel
390 pF	500	±10%	C0G	1812CG391KDBB0	Tape & Reel
470 pF	500	±5%	C0G	1812CG471JDBB0	Tape & Reel
470 pF	500	±10%	C0G	1812CG471KDBB0	Tape & Reel
560 pF	500	±5%	C0G	1812CG561JDBB0	Tape & Reel
560 pF	500	±10%	C0G	1812CG561KDBB0	Tape & Reel
680 pF	500	±5%	C0G	1812CG681JDBB0	Tape & Reel
680 pF	500	±10%	C0G	1812CG681KDBB0	Tape & Reel
820 pF	500	±5%	C0G	1812CG821JDBB0	Tape & Reel
820 pF	500	±10%	C0G	1812CG821KDBB0	Tape & Reel
1000 pF	500	±5%	C0G	1812CG102JDBB0	Tape & Reel
1000 pF	500	±10%	C0G	1812CG102KDBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

PHILIPS

Size: 1812 Dielectric: X7R

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
4700 pF	50	±10%	X7R	18122R472K9BB2	Tape & Reel
4700 pF	50	±20%	X7R	18122R472M9BB2	Tape & Reel
5600 pF	50	±10%	X7R	18122R562K9BB2	Tape & Reel
5600 pF	50	±20%	X7R	18122R562M9BB2	Tape & Reel
6800 pF	50	±10%	X7R	18122R682K9BB2	Tape & Reel
6800 pF	50	±20%	X7R	18122R682M9BB2	Tape & Reel
8200 pF	50	±10%	X7R	18122R822K9BB2	Tape & Reel
8200 pF	50	±20%	X7R	18122R822M9BB2	Tape & Reel
0.010 µF	50	±10%	X7R	18122R103K9BB2	Tape & Reel
0.010 µF	50	±20%	X7R	18122R103M9BB2	Tape & Reel
0.012 µF	50	±10%	X7R	18122R123K9BB2	Tape & Reel
0.012 µF	50	±20%	X7R	18122R123M9BB2	Tape & Reel
0.015 µF	50	±10%	X7R	18122R153K9BB2	Tape & Reel
0.015 µF	50	±20%	X7R	18122R153M9BB2	Tape & Reel
0.018 µF	50	±10%	X7R	18122R183K9BB2	Tape & Reel
0.018 µF	50	±20%	X7R	18122R183M9BB2	Tape & Reel
0.022 µF	50	±10%	X7R	18122R223K9BB2	Tape & Reel
0.022 µF	50	±20%	X7R	18122R223M9BB2	Tape & Reel
0.027 µF	50	±10%	X7R	18122R273K9BB2	Tape & Reel
0.027 µF	50	±20%	X7R	18122R273M9BB2	Tape & Reel
0.033 µF	50	±10%	X7R	18122R333K9BB2	Tape & Reel
0.033 µF	50	±20%	X7R	18122R333M9BB2	Tape & Reel
0.039 µF	50	±10%	X7R	18122R393K9BB2	Tape & Reel
0.039 µF	50	±20%	X7R	18122R393M9BB2	Tape & Reel
0.047 µF	50	±10%	X7R	18122R473K9BB2	Tape & Reel
0.047 µF	50	±20%	X7R	18122R473M9BB2	Tape & Reel
0.056 µF	50	±10%	X7R	18122R563K9BB2	Tape & Reel
0.056 µF	50	±20%	X7R	18122R563M9BB2	Tape & Reel
0.068 µF	50	±10%	X7R	18122R683K9BB2	Tape & Reel
0.068 µF	50	±20%	X7R	18122R683M9BB2	Tape & Reel
0.082 µF	50	±10%	X7R	18122R823K9BB2	Tape & Reel
0.082 µF	50	±20%	X7R	18122R823M9BB2	Tape & Reel
0.1 µF	50	±10%	X7R	18122R104K9BB2	Tape & Reel
0.1 µF	50	±20%	X7R	18122R104M9BB2	Tape & Reel
0.12 µF	50	±10%	X7R	18122R124K9BB2	Tape & Reel
0.12 µF	50	±20%	X7R	18122R124M9BB2	Tape & Reel
0.15 µF	50	±10%	X7R	18122R154K9BB2	Tape & Reel
0.15 µF	50	±20%	X7R	18122R154M9BB2	Tape & Reel
0.18 µF	50	±10%	X7R	18122R184K9BB2	Tape & Reel
0.18 µF	50	±20%	X7R	18122R184M9BB2	Tape & Reel
0.22 µF	50	±10%	X7R	18122R224K9BB2	Tape & Reel
0.22 µF	50	±20%	X7R	18122R224M9BB2	Tape & Reel
0.27 µF	50	±10%	X7R	18122R274K9BB2	Tape & Reel
0.27 µF	50	±20%	X7R	18122R274M9BB2	Tape & Reel
0.33 µF	50	±10%	X7R	18122R334K9BB2	Tape & Reel
0.33 µF	50	±20%	X7R	18122R334M9BB2	Tape & Reel
0.39 µF	50	±10%	X7R	18122R394K9BB2	Tape & Reel
0.39 µF	50	±20%	X7R	18122R394M9BB2	Tape & Reel
0.47 µF	50	±10%	X7R	18122R474K9BB2	Tape & Reel
0.47 µF	50	±20%	X7R	18122R474M9BB2	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
4700 pF	100	±10%	X7R	18122R472K0BB2	Tape & Reel
4700 pF	100	±20%	X7R	18122R472M0BB2	Tape & Reel
5600 pF	100	±10%	X7R	18122R562K0BB2	Tape & Reel
5600 pF	100	±20%	X7R	18122R562M0BB2	Tape & Reel
6800 pF	100	±10%	X7R	18122R682K0BB2	Tape & Reel
6800 pF	100	±20%	X7R	18122R682M0BB2	Tape & Reel
8200 pF	100	±10%	X7R	18122R822K0BB2	Tape & Reel
8200 pF	100	±20%	X7R	18122R822M0BB2	Tape & Reel
0.010 µF	100	±10%	X7R	18122R103K0BB2	Tape & Reel
0.010 µF	100	±20%	X7R	18122R103M0BB2	Tape & Reel
0.012 µF	100	±10%	X7R	18122R123K0BB2	Tape & Reel
0.012 µF	100	±20%	X7R	18122R123M0BB2	Tape & Reel
0.015 µF	100	±10%	X7R	18122R153K0BB2	Tape & Reel
0.015 µF	100	±20%	X7R	18122R153M0BB2	Tape & Reel
0.018 µF	100	±10%	X7R	18122R183K0BB2	Tape & Reel
0.018 µF	100	±20%	X7R	18122R183M0BB2	Tape & Reel
0.022 µF	100	±10%	X7R	18122R223K0BB2	Tape & Reel
0.022 µF	100	±20%	X7R	18122R223M0BB2	Tape & Reel
0.027 µF	100	±10%	X7R	18122R273K0BB2	Tape & Reel
0.027 µF	100	±20%	X7R	18122R273M0BB2	Tape & Reel
0.033 µF	100	±10%	X7R	18122R333K0BB2	Tape & Reel
0.033 µF	100	±20%	X7R	18122R333M0BB2	Tape & Reel
0.039 µF	100	±10%	X7R	18122R393K0BB2	Tape & Reel
0.039 µF	100	±20%	X7R	18122R393M0BB2	Tape & Reel
0.047 µF	100	±10%	X7R	18122R473K0BB2	Tape & Reel
0.047 µF	100	±20%	X7R	18122R473M0BB2	Tape & Reel
0.056 µF	100	±10%	X7R	18122R563K0BB2	Tape & Reel
0.056 µF	100	±20%	X7R	18122R563M0BB2	Tape & Reel
0.068 µF	100	±10%	X7R	18122R683K0BB2	Tape & Reel
0.068 µF	100	±20%	X7R	18122R683M0BB2	Tape & Reel
0.082 µF	100	±10%	X7R	18122R823K0BB2	Tape & Reel
0.082 µF	100	±20%	X7R	18122R823M0BB2	Tape & Reel
0.10 µF	100	±10%	X7R	18122R104K0BB2	Tape & Reel
0.10 µF	100	±20%	X7R	18122R104M0BB2	Tape & Reel
0.12 µF	100	±10%	X7R	18122R124K0BB2	Tape & Reel
0.12 µF	100	±20%	X7R	18122R124M0BB2	Tape & Reel
0.15 µF	100	±10%	X7R	18122R154K0BB2	Tape & Reel
0.15 µF	100	±20%	X7R	18122R154M0BB2	Tape & Reel
4700 pF	200	±10%	X7R	18122R472KBBB0	Tape & Reel
4700 pF	200	±20%	X7R	18122R472MBBB0	Tape & Reel
5600 pF	200	±10%	X7R	18122R562KBBB0	Tape & Reel
5600 pF	200	±20%	X7R	18122R562MBBB0	Tape & Reel
6800 pF	200	±10%	X7R	18122R682KBBB0	Tape & Reel
6800 pF	200	±20%	X7R	18122R682MBBB0	Tape & Reel
8200 pF	200	±10%	X7R	18122R822KBBB0	Tape & Reel
8200 pF	200	±20%	X7R	18122R822MBBB0	Tape & Reel
0.010 µF	200	±10%	X7R	18122R103KBBB0	Tape & Reel
0.010 µF	200	±20%	X7R	18122R103MBBB0	Tape & Reel
0.012 µF	200	±10%	X7R	18122R123KBBB0	Tape & Reel
0.012 µF	200	±20%	X7R	18122R123MBBB0	Tape & Reel

Surface Mount Ceramic Multilayer Capacitors

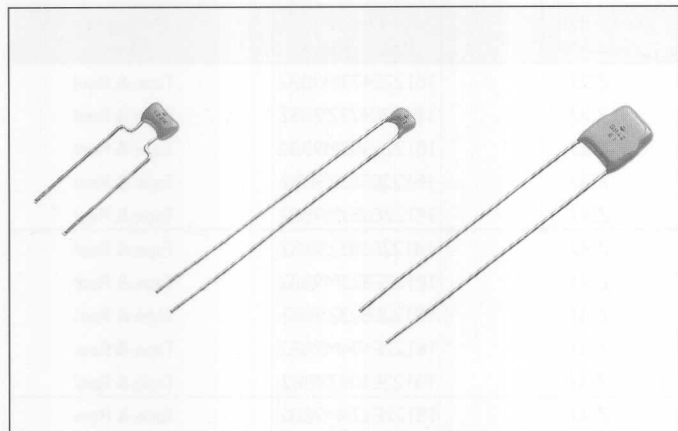
PHILIPS

Size: 1812 Dielectric: X7R

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.015 μ F	200	$\pm 10\%$	X7R	18122R153KBBB0	Tape & Reel
0.015 μ F	200	$\pm 20\%$	X7R	18122R153MBBB0	Tape & Reel
0.018 μ F	200	$\pm 10\%$	X7R	18122R183KBBB0	Tape & Reel
0.018 μ F	200	$\pm 20\%$	X7R	18122R183MBBB0	Tape & Reel
0.022 μ F	200	$\pm 10\%$	X7R	18122R223KBBB0	Tape & Reel
0.022 μ F	200	$\pm 20\%$	X7R	18122R223MBBB0	Tape & Reel
0.027 μ F	200	$\pm 10\%$	X7R	18122R273KBBB0	Tape & Reel
0.027 μ F	200	$\pm 20\%$	X7R	18122R273MBBB0	Tape & Reel
0.033 μ F	200	$\pm 10\%$	X7R	18122R333KBBB0	Tape & Reel
0.033 μ F	200	$\pm 20\%$	X7R	18122R333MBBB0	Tape & Reel
0.039 μ F	200	$\pm 10\%$	X7R	18122R393KBBB0	Tape & Reel
0.039 μ F	200	$\pm 20\%$	X7R	18122R393MBBB0	Tape & Reel
0.047 μ F	200	$\pm 10\%$	X7R	18122R473KBBB0	Tape & Reel
0.047 μ F	200	$\pm 20\%$	X7R	18122R473MBBB0	Tape & Reel
0.056 μ F	200	$\pm 10\%$	X7R	18122R563KBBB0	Tape & Reel
0.056 μ F	200	$\pm 20\%$	X7R	18122R563MBBB0	Tape & Reel
0.068 μ F	200	$\pm 10\%$	X7R	18122R683KBBB0	Tape & Reel
0.068 μ F	200	$\pm 20\%$	X7R	18122R683MBBB0	Tape & Reel
0.082 μ F	200	$\pm 10\%$	X7R	18122R823KBBB0	Tape & Reel
0.082 μ F	200	$\pm 20\%$	X7R	18122R823MBBB0	Tape & Reel
0.1 μ F	200	$\pm 10\%$	X7R	18122R104KBBB0	Tape & Reel
0.1 μ F	200	$\pm 20\%$	X7R	18122R104MBBB0	Tape & Reel
3300 pF	500	$\pm 10\%$	X7R	18122R332KDBB0	Tape & Reel
3300 pF	500	$\pm 20\%$	X7R	18122R332MDBB0	Tape & Reel
3900 pF	500	$\pm 10\%$	X7R	18122R392KDBB0	Tape & Reel
3900 pF	500	$\pm 20\%$	X7R	18122R392MDBB0	Tape & Reel
4700 pF	500	$\pm 10\%$	X7R	18122R472KDBB0	Tape & Reel
4700 pF	500	$\pm 20\%$	X7R	18122R472MDBB0	Tape & Reel
5600 pF	500	$\pm 10\%$	X7R	18122R562KDBB0	Tape & Reel
5600 pF	500	$\pm 20\%$	X7R	18122R562MDBB0	Tape & Reel
6800 pF	500	$\pm 10\%$	X7R	18122R682KDBB0	Tape & Reel
6800 pF	500	$\pm 20\%$	X7R	18122R682MDBB0	Tape & Reel
8200 pF	500	$\pm 10\%$	X7R	18122R822KDBB0	Tape & Reel
8200 pF	500	$\pm 20\%$	X7R	18122R822MDBB0	Tape & Reel
0.010 μ F	500	$\pm 10\%$	X7R	18122R103KDBB0	Tape & Reel
0.010 μ F	500	$\pm 20\%$	X7R	18122R103MDBB0	Tape & Reel
0.012 μ F	500	$\pm 10\%$	X7R	18122R123KDBB0	Tape & Reel
0.012 μ F	500	$\pm 20\%$	X7R	18122R123MDBB0	Tape & Reel
0.015 μ F	500	$\pm 10\%$	X7R	18122R153KDBB0	Tape & Reel
0.015 μ F	500	$\pm 20\%$	X7R	18122R153MDBB0	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Philips Part Number	Packaging Type
0.047 μ F	50	$\pm 20\%$	Z5U	18122E473M9BB2	Tape & Reel
0.047 μ F	50	+80% / -20%	Z5U	18122E473Z9BB2	Tape & Reel
0.056 μ F	50	$\pm 20\%$	Z5U	18122E563M9BB2	Tape & Reel
0.056 μ F	50	+80% / -20%	Z5U	18122E563Z9BB2	Tape & Reel
0.068 μ F	50	$\pm 20\%$	Z5U	18122E683M9BB2	Tape & Reel
0.068 μ F	50	+80% / -20%	Z5U	18122E683Z9BB2	Tape & Reel
0.082 μ F	50	$\pm 20\%$	Z5U	18122E823M9BB2	Tape & Reel
0.082 μ F	50	+80% / -20%	Z5U	18122E823Z9BB2	Tape & Reel
0.10 μ F	50	$\pm 20\%$	Z5U	18122E104M9BB2	Tape & Reel
0.10 μ F	50	+80% / -20%	Z5U	18122E104Z9BB2	Tape & Reel
0.12 μ F	50	$\pm 20\%$	Z5U	18122E124M9BB2	Tape & Reel
0.12 μ F	50	+80% / -20%	Z5U	18122E124Z9BB2	Tape & Reel
0.15 μ F	50	$\pm 20\%$	Z5U	18122E154M9BB2	Tape & Reel
0.15 μ F	50	+80% / -20%	Z5U	18122E154Z9BB2	Tape & Reel
0.18 μ F	50	$\pm 20\%$	Z5U	18122E184M9BB2	Tape & Reel
0.18 μ F	50	+80% / -20%	Z5U	18122E184Z9BB2	Tape & Reel
0.22 μ F	50	$\pm 20\%$	Z5U	18122E224M9BB2	Tape & Reel
0.22 μ F	50	+80% / -20%	Z5U	18122E224Z9BB2	Tape & Reel
0.27 μ F	50	$\pm 20\%$	Z5U	18122E274M9BB2	Tape & Reel
0.27 μ F	50	+80% / -20%	Z5U	18122E274Z9BB2	Tape & Reel
0.33 μ F	50	$\pm 20\%$	Z5U	18122E334M9BB2	Tape & Reel
0.33 μ F	50	+80% / -20%	Z5U	18122E334Z9BB2	Tape & Reel
0.39 μ F	50	$\pm 20\%$	Z5U	18122E394M9BB2	Tape & Reel
0.39 μ F	50	+80% / -20%	Z5U	18122E394Z9BB2	Tape & Reel
0.47 μ F	50	$\pm 20\%$	Z5U	18122E474M9BB2	Tape & Reel
0.47 μ F	50	+80% / -20%	Z5U	18122E474Z9BB2	Tape & Reel
0.56 μ F	50	$\pm 20\%$	Z5U	18122E564M9BB2	Tape & Reel
0.56 μ F	50	+80% / -20%	Z5U	18122E564Z9BB2	Tape & Reel
0.68 μ F	50	$\pm 20\%$	Z5U	18122E684M9BB2	Tape & Reel
0.68 μ F	50	+80% / -20%	Z5U	18122E684Z9BB2	Tape & Reel
0.82 μ F	50	$\pm 20\%$	Z5U	18122E824M9BB2	Tape & Reel
0.82 μ F	50	+80% / -20%	Z5U	18122E824Z9BB2	Tape & Reel
1.0 μ F	50	$\pm 20\%$	Z5U	18122E105M9BB2	Tape & Reel
1.0 μ F	50	+80% / -20%	Z5U	18122E105Z9BB2	Tape & Reel



Mono-Kap Radial Leaded Conformal Coated Ceramic Capacitors

Features

- Radial Leads for Convenient Printed Board Assembly
- Rugged Epoxy Coating for Environmental Protection
- Voltage Ranges from 25 to 100 VDC
- Four Standard Dielectric Materials: NPO, X7R, Z5U & Y5V

Part Number

- See Table 1

Marking

- See Figure 1 for Marking Specifications

Packaging

- Available Bulk, Radial Tape & Reel and Ammo Pack.

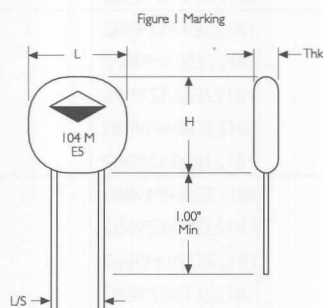
Lead Material Available

- 100% Copper, Solder Coated

Encapsulation

- Conformally Coated Epoxy

Figure 1 Marking



Marking Code:

- 15 Size: Coded Capacitance Value
 20 Size: Logo, Coded Capacitance & Tolerance
 30 size: Logo, Coded Capacitance & Tolerance
 Coded Temp. Coef. & Voltage

Dimensions in mm (inches)

Lead Style	Case Size	Lead Spacing (S) ±0.79(.031)	Length Max. (L)	Width Max. (W)	Thickness Max. (T)	Seat Height Max. (G)	Lead Length (A)
H	15	5.08 (.200)	3.81 (.150)	3.81 (.150)	2.54 (.100)	2.54 (.100)	Long Lead: (STD) 31.75 ± 6.35 (1.25 ± .25)
	20	5.08 (.200)	5.08 (.200)	5.08 (.200)	3.18 (.125)	2.54 (.100)	
	30	6.35 (.250)	5.08 (.200)	5.08 (.200)	3.18 (.125)	3.18 (.125)	
K	15	5.08 (.200)	7.62 (.300)	7.62 (.300)	3.81 (.150)	33.18 (.125)	Short Lead: (STD) 5.08 ± 0.79 (.200 ± 0.31)
	20	5.08 (.200)	7.62 (.300)	7.62 (.300)	3.18 (.125)	3.50 (.138)	
	30	5.08 (.200)	7.62 (.300)	7.62 (.300)	3.18 (.125)	3.50 (.138)	
L	15	5.08 (.200)	7.62 (.300)	7.62 (.300)	3.81 (.150)	3.50 (.138)	Non-Standard Lead Length can be supplied upon request.
	20	5.08 (.200)	7.62 (.300)	7.62 (.300)	3.18 (.125)	N/A	
	30	5.08 (.200)	7.62 (.300)	7.62 (.300)	3.18 (.125)	N/A	

Electrical Parameters

Capacitance Range:

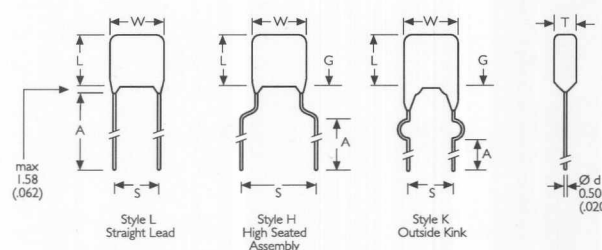
Material	Voltage		
	25V	50V	100V
C0G	-	10 pF to 0.022 μ F	10 pF to 0.01 μ F
X7R	-	220 pF to 1.0 μ F	220 pF to 0.33 μ F
Z5U	-	1000 pF to 1.0 μ F	1000 pF to 0.47 μ F
Y5V	0.01 μ F to 1.0 μ F	0.01 μ F to 1.0 μ F	-

Capacitance Tolerance:

- C0G: ± 0.25 pF, ± 0.5 pF, $\pm 5\%$ & $\pm 10\%$
 X7R: $\pm 5\%$, $\pm 10\%$ & $\pm 20\%$
 Z5U & Y5V: $\pm 20\%$ & $+80\%/-20\%$

Temperature Characteristics:

- C0G: 0 ± 30 ppm/ $^{\circ}$ C, -55° C to $+125^{\circ}$ C
 X7R: $\pm 15\%$, -55° C to $+125^{\circ}$ C
 Z5U: $+22\%$ to -56% , $+10^{\circ}$ C to $+85^{\circ}$ C
 Y5V: $+22\%$ to -56% , $+30^{\circ}$ C to $+85^{\circ}$ C



FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Table 1
Series K Part Number

K	104	M	20	Z5U	F	TT	WN
K Mono-Kap product line	Capacitance Value (PF) First 2 digits are significant; third digit is a multiplier as follows: 0 x 1 1 x 10 2 x 100 3 x 1000 4 x 10,000 5 x 100,000	Tolerance Code J ± 5% (C0G only) K ± 10% (C0G and X7R) M ± 20% (X7R, Z5U, Y5V) Z +80/ -20% (Z5U, Y5V)	Size Code 15 .150" x .150" x .100" thick 20 .200" x .200" x .125" thick 30 .300" x .300" x .150" thick	C0G X7R Z5U Y5V	Voltage Code E 25VDC (Y5V) F 50VDC (C0G, X7R, Z5U, Y5V) H 100VDC (C0G, X7R, Z5U) K 200VDC (C0G, X7R)		
Packaging Code							
Code	Lead Space	Lead Dia	Lead Length	Form			
TN	.100"	.020"	Ho-20mm	Tape & Reel Straight			
TP	100"	.020"	Ho-16mm	Tape & Reel outside kink			
TR	200"	.020"	Ho-16mm	Tape & Reel outside kink			
TT	200"	.020"	Ho-16mm	Tape & Reel straight (Formed 15 & 20 sizes)			
TT	.200"	.020"	Ho-20mm	Straight (30 size)			
VB	100"	.020"	1.00"	Bulk straight lead			
VC	200"	.020"	1.00"	Bulk straight lead			
VD	250"	.020"	1.00"	Bulk straight lead			
VE	300"	.020"	1.00"	Bulk straight lead			
VF	375"	.020"	1.00"	Bulk straight lead			
VG	375"	.025"	1.00"	Bulk straight lead			
VH	400"	.025"	1.00"	Bulk straight lead			
VK	100"	.020"	1.00"	Bulk outside kink			
VL	200"	.020"	1.00"	Bulk outside kink			

Mono-Kap™ Distributor Part Number
Conformal Coated Radial

CW	15	C	102	K
Temperature Characteristics CN = C0G CW = X7R CY = Y5V CZ = Z5U		Working Voltage DC A = 100V C = 50V		Tolerance J = \pm 5% K = \pm 10% M = \pm 20% Z = +80/-20%
Size Code	Length	Height	Thk	L/S
15	.150"	.150"	.100"	.100"
20	.200"	.200"	.125"	.100"
30	.300"	.300"	.150"	.200"
Capacitance (pF) 102 = 1,000 pF i.e. the third digit signifies the number of zeros				

Conversion Factors:
1 inch = 25.4001 mm
1mm = .03937 inch

Capacitance Value in μ F	Test Code Minimum IR in Meg Ω	Detail Code
$\leq .01$	100000	WA
.012	84000	WB
.015	67000	WC
.018	56000	WD
.022	46000	WE
.027	37000	WF
.033	31000	WG
.039	26000	WH
.047	22000	WJ
.056	18000	WK
.068	15000	WL
.082	12000	WM
.100	10000	WN
.120	8400	WP
.150	6700	WR
.180	5600	WS
.220	4600	WT
.270	3700	WU
.330	3100	WW
.390	2600	WX
.470	2200	WY
.560	1800	XA
.680	1500	XB
.820	1200	XC
1.0	1000	XD

Note: In order to serve our customers better and faster, Philips Components reserves the right to substitute an equal or better part than originally stated on the customer order.

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Mono-Kap Radial Conformal Coated Ceramic Capacitors

Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
10 pF	50	±5%	C0G	0.100"	CN15C100J	K100J15C0GFVBWA	Bulk
10 pF	50	±10%	C0G	0.100"	CN15C100K	K100K15C0GFVBWA	Bulk
12 pF	50	±5%	C0G	0.100"	CN15C120J	K120J15C0GFVBWA	Bulk
12 pF	50	±10%	C0G	0.100"	CN15C120K	K120K15C0GFVBWA	Bulk
15 pF	50	±5%	C0G	0.100"	CN15C150J	K150J15C0GFVBWA	Bulk
15 pF	50	±10%	C0G	0.100"	CN15C150K	K150K15C0GFVBWA	Bulk
18 pF	50	±5%	C0G	0.100"	CN15C180J	K180J15C0GFVBWA	Bulk
18 pF	50	±10%	C0G	0.100"	CN15C180K	K180K15C0GFVBWA	Bulk
22 pF	50	±5%	C0G	0.100"	CN15C220J	K220J15C0GFVBWA	Bulk
22 pF	50	±10%	C0G	0.100"	CN15C220K	K220K15C0GFVBWA	Bulk
27 pF	50	±5%	C0G	0.100"	CN15C270J	K270J15C0GFVBWA	Bulk
27 pF	50	±10%	C0G	0.100"	CN15C270K	K270K15C0GFVBWA	Bulk
33 pF	50	±5%	C0G	0.100"	CN15C330J	K330J15C0GFVBWA	Bulk
33 pF	50	±10%	C0G	0.100"	CN15C330K	K330K15C0GFVBWA	Bulk
39 pF	50	±5%	C0G	0.100"	CN15C390J	K390J15C0GFVBWA	Bulk
39 pF	50	±10%	C0G	0.100"	CN15C390K	K390K15C0GFVBWA	Bulk
47 pF	50	±5%	C0G	0.100"	CN15C470J	K470J15C0GFVBWA	Bulk
47 pF	50	±10%	C0G	0.100"	CN15C470K	K470K15C0GFVBWA	Bulk
56 pF	50	±5%	C0G	0.100"	CN15C560J	K560J15C0GFVBWA	Bulk
56 pF	50	±10%	C0G	0.100"	CN15C560K	K560K15C0GFVBWA	Bulk
68 pF	50	±5%	C0G	0.100"	CN15C680J	K680J15C0GFVBWA	Bulk
68 pF	50	±10%	C0G	0.100"	CN15C680K	K680K15C0GFVBWA	Bulk
82 pF	50	±5%	C0G	0.100"	CN15C820J	K820J15C0GFVBWA	Bulk
82 pF	50	±10%	C0G	0.100"	CN15C820K	K820K15C0GFVBWA	Bulk
100 pF	50	±5%	C0G	0.100"	CN15C101J	K101J15C0GFVBWA	Bulk
100 pF	50	±10%	C0G	0.100"	CN15C101K	K101K15C0GFVBWA	Bulk
120 pF	50	±5%	C0G	0.100"	CN15C121J	K121J15C0GFVBWA	Bulk
120 pF	50	±10%	C0G	0.100"	CN15C121K	K121K15C0GFVBWA	Bulk
150 pF	50	±5%	C0G	0.100"	CN15C151J	K151J15C0GFVBWA	Bulk
150 pF	50	±10%	C0G	0.100"	CN15C151K	K151K15C0GFVBWA	Bulk
180 pF	50	±5%	C0G	0.100"	CN15C181J	K181J15C0GFVBWA	Bulk
180 pF	50	±10%	C0G	0.100"	CN15C181K	K181K15C0GFVBWA	Bulk
220 pF	50	±5%	C0G	0.100"	CN15C221J	K221J15C0GFVBWA	Bulk
220 pF	50	±10%	C0G	0.100"	CN15C221K	K221K15C0GFVBWA	Bulk
270 pF	50	±5%	C0G	0.100"	CN15C271J	K271J15C0GFVBWA	Bulk
270 pF	50	±10%	C0G	0.100"	CN15C271K	K271K15C0GFVBWA	Bulk
330 pF	50	±5%	C0G	0.100"	CN15C331J	K331J15C0GFVBWA	Bulk
330 pF	50	±10%	C0G	0.100"	CN15C331K	K331K15C0GFVBWA	Bulk
390 pF	50	±5%	C0G	0.100"	CN15C391J	K391J15C0GFVBWA	Bulk
390 pF	50	±10%	C0G	0.100"	CN15C391K	K391K15C0GFVBWA	Bulk
470 pF	50	±5%	C0G	0.100"	CN15C471J	K471J15C0GFVBWA	Bulk
470 pF	50	±10%	C0G	0.100"	CN15C471K	K471K15C0GFVBWA	Bulk
560 pF	50	±5%	C0G	0.100"	CN15C561J	K561J15C0GFVBWA	Bulk
560 pF	50	±10%	C0G	0.100"	CN15C561K	K561K15C0GFVBWA	Bulk
680 pF	50	±5%	C0G	0.100"	CN20C681J	K681J15C0GFVBWA	Bulk
680 pF	50	±10%	C0G	0.100"	CN20C681K	K681K15C0GFVBWA	Bulk
820 pF	50	±5%	C0G	0.100"	CN20C821J	K821J15C0GFVBWA	Bulk
820 pF	50	±10%	C0G	0.100"	CN20C821K	K821K15C0GFVBWA	Bulk
1000 pF	50	±5%	C0G	0.100"	CN20C102J	K102J15C0GFVBWA	Bulk
1000 pF	50	±10%	C0G	0.100"	CN20C102K	K102K15C0GFVBWA	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
1200 pF	50	±5%	C0G	0.100"	CN20C122J	K122J20C0GFVBWA	Bulk
1200 pF	50	±10%	C0G	0.100"	CN20C122K	K122K20C0GFVBWA	Bulk
1500 pF	50	±5%	C0G	0.100"	CN20C152J	K152J20C0GFVBWA	Bulk
1500 pF	50	±10%	C0G	0.100"	CN20C152K	K152K20C0GFVBWA	Bulk
1800 pF	50	±5%	C0G	0.100"	CN20C182J	K182J20C0GFVBWA	Bulk
1800 pF	50	±10%	C0G	0.100"	CN20C182K	K182K20C0GFVBWA	Bulk
2200 pF	50	±5%	C0G	0.100"	CN20C222J	K222J20C0GFVBWA	Bulk
2200 pF	50	±10%	C0G	0.100"	CN20C222K	K222K20C0GFVBWA	Bulk
2700 pF	50	±5%	C0G	0.100"	CN20C272J	K272J20C0GFVBWA	Bulk
2700 pF	50	±10%	C0G	0.100"	CN20C272K	K272K20C0GFVBWA	Bulk
3300 pF	50	±5%	C0G	0.100"	CN20C332J	K332J20C0GFVBWA	Bulk
3300 pF	50	±10%	C0G	0.100"	CN20C332K	K332K20C0GFVBWA	Bulk
3900 pF	50	±5%	C0G	0.200"	CN30C392J	K392J20C0GFVCWA	Bulk
3900 pF	50	±10%	C0G	0.200"	CN30C392K	K392K20C0GFVCWA	Bulk
4700 pF	50	±5%	C0G	0.200"	CN30C472J	K472J20C0GFVCWA	Bulk
4700 pF	50	±10%	C0G	0.200"	CN30C472K	K472K20C0GFVCWA	Bulk
5600 pF	50	±5%	C0G	0.200"	CN30C562J	K562J20C0GFVCWA	Bulk
5600 pF	50	±10%	C0G	0.200"	CN30C562K	K562K20C0GFVCWA	Bulk
6800 pF	50	±5%	C0G	0.200"	CN30C682J	K682J30C0GFVCWA	Bulk
6800 pF	50	±10%	C0G	0.200"	CN30C682K	K682K30C0GFVCWA	Bulk
8200 pF	50	±5%	C0G	0.200"	CN30C822J	K822J30C0GFVCWA	Bulk
8200 pF	50	±10%	C0G	0.200"	CN30C822K	K822K30C0GFVCWA	Bulk
0.01 µF	50	±5%	C0G	0.200"	CN30C103J	K103J30C0GFVCWA	Bulk
0.01 µF	50	±10%	C0G	0.200"	CN30C103K	K103K30C0GFVCWA	Bulk
0.012 µF	50	±5%	C0G	0.200"	CN30C123J	K123J30C0GFVCWB	Bulk
0.012 µF	50	±10%	C0G	0.200"	CN30C123K	K123K30C0GFVCWB	Bulk
0.015 µF	50	±5%	C0G	0.200"	CN30C153J	K153J30C0GFVCWC	Bulk
0.015 µF	50	±10%	C0G	0.200"	CN30C153K	K153K30C0GFVCWC	Bulk
0.018 µF	50	±5%	C0G	0.200"	CN30C183J	K183J30C0GFVCWD	Bulk
0.018 µF	50	±10%	C0G	0.200"	CN30C183K	K183K30C0GFVCWD	Bulk
0.022 µF	50	±5%	C0G	0.200"	CN30C223J	K223J30C0GFVCWE	Bulk
0.022 µF	50	±10%	C0G	0.200"	CN30C223K	K223K30C0GFVCWE	Bulk
10 pF	100	±5%	C0G	0.100"	CN15A100J	K100J15C0GHVBWA	Bulk
10 pF	100	±10%	C0G	0.100"	CN15A100K	K100K15C0GHVBWA	Bulk
12 pF	100	±5%	C0G	0.100"	CN15A120J	K120J15C0GHVBWA	Bulk
12 pF	100	±10%	C0G	0.100"	CN15A120K	K120K15C0GHVBWA	Bulk
15 pF	100	±5%	C0G	0.100"	CN15A150J	K150J15C0GHVBWA	Bulk
15 pF	100	±10%	C0G	0.100"	CN15A150K	K150K15C0GHVBWA	Bulk
18 pF	100	±5%	C0G	0.100"	CN15A180J	K180J15C0GHVBWA	Bulk
18 pF	100	±10%	C0G	0.100"	CN15A180K	K180K15C0GHVBWA	Bulk
22 pF	100	±5%	C0G	0.100"	CN15A220J	K220J15C0GHVBWA	Bulk
22 pF	100	±10%	C0G	0.100"	CN15A220K	K220K15C0GHVBWA	Bulk
27 pF	100	±5%	C0G	0.100"	CN15A270J	K270J15C0GHVBWA	Bulk
27 pF	100	±10%	C0G	0.100"	CN15A270K	K270K15C0GHVBWA	Bulk
33 pF	100	±5%	C0G	0.100"	CN15A330J	K330J15C0GHVBWA	Bulk
33 pF	100	±10%	C0G	0.100"	CN15A330K	K330K15C0GHVBWA	Bulk
39 pF	100	±5%	C0G	0.100"	CN15A390J	K390J15C0GHVBWA	Bulk
39 pF	100	±10%	C0G	0.100"	CN15A390K	K390K15C0GHVBWA	Bulk
47 pF	100	±5%	C0G	0.100"	CN15A470J	K470J15C0GHVBWA	Bulk
47 pF	100	±10%	C0G	0.100"	CN15A470K	K470K15C0GHVBWA	Bulk

Mono-Kap Radial Conformal Coated Ceramic Capacitors

Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
56 pF	100	±5%	C0G	0.100"	CN15A560J	K560J15C0GHVBWA	Bulk
56 pF	100	±10%	C0G	0.100"	CN15A560K	K560K15C0GHVBWA	Bulk
68 pF	100	±5%	C0G	0.100"	CN15A680J	K680J15C0GHVBWA	Bulk
68 pF	100	±10%	C0G	0.100"	CN15A680K	K680K15C0GHVBWA	Bulk
82 pF	100	±5%	C0G	0.100"	CN15A820J	K820J15C0GHVBWA	Bulk
82 pF	100	±10%	C0G	0.100"	CN15A820K	K820K15C0GHVBWA	Bulk
100 pF	100	±5%	C0G	0.100"	CN15A101J	K101J15C0GHVBWA	Bulk
100 pF	100	±10%	C0G	0.100"	CN15A101K	K101K15C0GHVBWA	Bulk
120 pF	100	±5%	C0G	0.100"	CN15A121J	K121J15C0GHVBWA	Bulk
120 pF	100	±10%	C0G	0.100"	CN15A121K	K121K15C0GHVBWA	Bulk
150 pF	100	±5%	C0G	0.100"	CN15A151J	K151J15C0GHVBWA	Bulk
150 pF	100	±10%	C0G	0.100"	CN15A151K	K151K15C0GHVBWA	Bulk
180 pF	100	±5%	C0G	0.100"	CN15A181J	K181J15C0GHVBWA	Bulk
180 pF	100	±10%	C0G	0.100"	CN15A181K	K181K15C0GHVBWA	Bulk
220 pF	100	±5%	C0G	0.100"	CN15A221J	K221J15C0GHVBWA	Bulk
220 pF	100	±10%	C0G	0.100"	CN15A221K	K221K15C0GHVBWA	Bulk
270 pF	100	±5%	C0G	0.100"	CN15A271J	K271J15C0GHVBWA	Bulk
270 pF	100	±10%	C0G	0.100"	CN15A271K	K271K15C0GHVBWA	Bulk
330 pF	100	±5%	C0G	0.100"	CN15A331J	K331J15C0GHVBWA	Bulk
330 pF	100	±10%	C0G	0.100"	CN15A331K	K331K15C0GHVBWA	Bulk
390 pF	100	±5%	C0G	0.100"	CN15A391J	K391J15C0GHVBWA	Bulk
390 pF	100	±10%	C0G	0.100"	CN15A391K	K391K15C0GHVBWA	Bulk
470 pF	100	±5%	C0G	0.100"	CN20A471J	K471J15C0GHVBWA	Bulk
470 pF	100	±10%	C0G	0.100"	CN20A471K	K471K15C0GHVBWA	Bulk
560 pF	100	±5%	C0G	0.100"	CN20A561J	K561J15C0GHVBWA	Bulk
560 pF	100	±10%	C0G	0.100"	CN20A561K	K561K15C0GHVBWA	Bulk
680 pF	100	±5%	C0G	0.100"	CN20A681J	K681J15C0GHVBWA	Bulk
680 pF	100	±10%	C0G	0.100"	CN20A681K	K681K15C0GHVBWA	Bulk
820 pF	100	±5%	C0G	0.100"	CN20A821J	K821J15C0GHVBWA	Bulk
820 pF	100	±10%	C0G	0.100"	CN20A821K	K821K15C0GHVBWA	Bulk
1000 pF	100	±5%	C0G	0.100"	CN20A102J	K102J20C0GHVBWA	Bulk
1000 pF	100	±10%	C0G	0.100"	CN20A102K	K102K20C0GHVBWA	Bulk
1200 pF	100	±5%	C0G	0.100"	CN20A122J	K122J20C0GHVBWA	Bulk
1200 pF	100	±10%	C0G	0.100"	CN20A122K	K122K20C0GHVBWA	Bulk
1500 pF	100	±5%	C0G	0.100"	CN20A152J	K152J20C0GHVBWA	Bulk
1500 pF	100	±10%	C0G	0.100"	CN20A152K	K152K20C0GHVBWA	Bulk
1800 pF	100	±5%	C0G	0.200"	CN30A182J	K182J20C0GHVCWA	Bulk
1800 pF	100	±10%	C0G	0.200"	CN30A182K	K182K20C0GHVCWA	Bulk
2200 pF	100	±5%	C0G	0.200"	CN30A222J	K222J20C0GHVCWA	Bulk
2200 pF	100	±10%	C0G	0.200"	CN30A222K	K222K20C0GHVCWA	Bulk
2700 pF	100	±5%	C0G	0.200"	CN30A272J	K272J20C0GHVCWA	Bulk
2700 pF	100	±10%	C0G	0.200"	CN30A272K	K272K20C0GHVCWA	Bulk
3300 pF	100	±5%	C0G	0.200"	CN30A332J	K332J20C0GHVCWA	Bulk
3300 pF	100	±10%	C0G	0.200"	CN30A332K	K332K20C0GHVCWA	Bulk
3900 pF	100	±5%	C0G	0.200"	CN30A392J	K392J20C0GHVCWA	Bulk
3900 pF	100	±10%	C0G	0.200"	CN30A392K	K392K20C0GHVCWA	Bulk
4700 pF	100	±5%	C0G	0.200"	CN30A472J	K472J20C0GHVCWA	Bulk
4700 pF	100	±10%	C0G	0.200"	CN30A472K	K472K20C0GHVCWA	Bulk
5600 pF	100	±5%	C0G	0.200"	CN30A562J	K562J30C0GHVCWA	Bulk
5600 pF	100	±10%	C0G	0.200"	CN30A562K	K562K30C0GHVCWA	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
6800 pF	100	±5%	C0G	0.200"	CN30A682J	K682J30C0GHVCWA	Bulk
6800 pF	100	±10%	C0G	0.200"	CN30A682K	K682K30C0GHVCWA	Bulk
8200 pF	100	±5%	C0G	0.200"	CN30A822J	K822J30C0GHVCWA	Bulk
8200 pF	100	±10%	C0G	0.200"	CN30A822K	K822K30C0GHVCWA	Bulk
0.01 µF	100	±5%	C0G	0.200"	CN30A103J	K103J30C0GHVCWA	Bulk
0.01 µF	100	±10%	C0G	0.200"	CN30A103K	K103K30C0GHVCWA	Bulk

Mono-Kap Radial Conformal Coated Ceramic Capacitors

Dielectric: X7R

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
220 pF	50	±10%	X7R	0.100"	CW15C221K	K221K15X7RFVBWA	Bulk
220 pF	50	±20%	X7R	0.100"	CW15C221M	K221M15X7RFVBWA	Bulk
270 pF	50	±10%	X7R	0.100"	CW15C271K	K271K15X7RFVBWA	Bulk
270 pF	50	±20%	X7R	0.100"	CW15C271M	K271M15X7RFVBWA	Bulk
330 pF	50	±10%	X7R	0.100"	CW15C331K	K331K15X7RFVBWA	Bulk
330 pF	50	±20%	X7R	0.100"	CW15C331M	K331M15X7RFVBWA	Bulk
390 pF	50	±10%	X7R	0.100"	CW15C391K	K391K15X7RFVBWA	Bulk
390 pF	50	±20%	X7R	0.100"	CW15C391M	K391M15X7RFVBWA	Bulk
470 pF	50	±10%	X7R	0.100"	CW15C471K	K471K15X7RFVBWA	Bulk
470 pF	50	±20%	X7R	0.100"	CW15C471M	K471M15X7RFVBWA	Bulk
560 pF	50	±10%	X7R	0.100"	CW15C561K	K561K15X7RFVBWA	Bulk
560 pF	50	±20%	X7R	0.100"	CW15C561M	K561M15X7RFVBWA	Bulk
680 pF	50	±10%	X7R	0.100"	CW15C681K	K681K15X7RFVBWA	Bulk
680 pF	50	±20%	X7R	0.100"	CW15C681M	K681M15X7RFVBWA	Bulk
820 pF	50	±10%	X7R	0.100"	CW15C821K	K821K15X7RFVBWA	Bulk
820 pF	50	±20%	X7R	0.100"	CW15C821M	K821M15X7RFVBWA	Bulk
1000 pF	50	±10%	X7R	0.100"	CW15C102K	K102K15X7RFVBWA	Bulk
1000 pF	50	±20%	X7R	0.100"	CW15C102M	K102M15X7RFVBWA	Bulk
1200 pF	50	±10%	X7R	0.100"	CW15C122K	K122K15X7RFVBWA	Bulk
1200 pF	50	±20%	X7R	0.100"	CW15C122M	K122M15X7RFVBWA	Bulk
1500 pF	50	±10%	X7R	0.100"	CW15C152K	K152K15X7RFVBWA	Bulk
1500 pF	50	±20%	X7R	0.100"	CW15C152M	K152M15X7RFVBWA	Bulk
1800 pF	50	±10%	X7R	0.100"	CW15C182K	K182K15X7RFVBWA	Bulk
1800 pF	50	±20%	X7R	0.100"	CW15C182M	K182M15X7RFVBWA	Bulk
2200 pF	50	±10%	X7R	0.100"	CW15C222K	K222K15X7RFVBWA	Bulk
2200 pF	50	±20%	X7R	0.100"	CW15C222M	K222M15X7RFVBWA	Bulk
2700 pF	50	±10%	X7R	0.100"	CW15C272K	K272K15X7RFVBWA	Bulk
2700 pF	50	±20%	X7R	0.100"	CW15C272M	K272M15X7RFVBWA	Bulk
3300 pF	50	±10%	X7R	0.100"	CW15C332K	K332K15X7RFVBWA	Bulk
3300 pF	50	±20%	X7R	0.100"	CW15C332M	K332M15X7RFVBWA	Bulk
3900 pF	50	±10%	X7R	0.100"	CW15C392K	K392K15X7RFVBWA	Bulk
3900 pF	50	±20%	X7R	0.100"	CW15C392M	K392M15X7RFVBWA	Bulk
4700 pF	50	±10%	X7R	0.100"	CW15C472K	K472K15X7RFVBWA	Bulk
4700 pF	50	±20%	X7R	0.100"	CW15C472M	K472M15X7RFVBWA	Bulk
5600 pF	50	±10%	X7R	0.100"	CW15C562K	K562K15X7RFVBWA	Bulk
5600 pF	50	±20%	X7R	0.100"	CW15C562M	K562M15X7RFVBWA	Bulk
6800 pF	50	±10%	X7R	0.100"	CW15C682K	K682K15X7RFVBWA	Bulk
6800 pF	50	±20%	X7R	0.100"	CW15C682M	K682M15X7RFVBWA	Bulk
8200 pF	50	±10%	X7R	0.100"	CW15C822K	K822K15X7RFVBWA	Bulk
8200 pF	50	±20%	X7R	0.100"	CW15C822M	K822M15X7RFVBWA	Bulk
0.01 µF	50	±10%	X7R	0.100"	CW15C103K	K103K15X7RFVBWA	Bulk
0.01 µF	50	±20%	X7R	0.100"	CW15C103M	K103M15X7RFVBWA	Bulk
0.012 µF	50	±10%	X7R	0.100"	CW15C123K	K123K15X7RFVBWB	Bulk
0.012 µF	50	±20%	X7R	0.100"	CW15C123M	K123M15X7RFVBWB	Bulk
0.015 µF	50	±10%	X7R	0.100"	CW15C153K	K153K15X7RFVBWC	Bulk
0.015 µF	50	±20%	X7R	0.100"	CW15C153M	K153M15X7RFVBWC	Bulk
0.018 µF	50	±10%	X7R	0.100"	CW20C183K	K183K15X7RFVBWD	Bulk
0.018 µF	50	±20%	X7R	0.100"	CW20C183M	K183M15X7RFVBWD	Bulk
0.022 µF	50	±10%	X7R	0.100"	CW20C223K	K223K15X7RFVBWE	Bulk
0.022 µF	50	±20%	X7R	0.100"	CW20C223M	K223M15X7RFVBWE	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
0.027 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C273K	K273K15X7RFVBWF	Bulk
0.027 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C273M	K273M15X7RFVBWF	Bulk
0.033 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C333K	K333K15X7RFVBWG	Bulk
0.033 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C333M	K333M15X7RFVBWG	Bulk
0.039 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C393K	K393K20X7RFVBWH	Bulk
0.039 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C393M	K393M20X7RFVBWH	Bulk
0.047 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C473K	K473K20X7RFVBWJ	Bulk
0.047 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C473M	K473M20X7RFVBWJ	Bulk
0.056 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C563K	K563K20X7RFVBWK	Bulk
0.056 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C563M	K563M20X7RFVBWK	Bulk
0.068 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C683K	K683K20X7RFVBWL	Bulk
0.068 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C683M	K683M20X7RFVBWL	Bulk
0.082 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C823K	K823K20X7RFVBWM	Bulk
0.082 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C823M	K823M20X7RFVBWM	Bulk
0.1 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C104K	K104K20X7RFVBWN	Bulk
0.1 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C104M	K104M20X7RFVBWN	Bulk
0.12 μ F	50	$\pm 10\%$	X7R	0.100"	CW20C124K	K124K20X7RFVBWP	Bulk
0.12 μ F	50	$\pm 20\%$	X7R	0.100"	CW20C124M	K124M20X7RFVBWP	Bulk
0.15 μ F	50	$\pm 10\%$	X7R	0.200"	CW30C154K	K154K20X7RFVCWR	Bulk
0.15 μ F	50	$\pm 20\%$	X7R	0.200"	CW30C154M	K154M20X7RFVCWR	Bulk
0.18 μ F	50	$\pm 10\%$	X7R	0.200"	CW30C184K	K184K20X7RFVCWS	Bulk
0.18 μ F	50	$\pm 20\%$	X7R	0.200"	CW30C184M	K184M20X7RFVCWS	Bulk
0.22 μ F	50	$\pm 10\%$	X7R	0.200"	CW30C224K	K224K20X7RFVCWT	Bulk
0.22 μ F	50	$\pm 20\%$	X7R	0.200"	CW30C224M	K224M20X7RFVCWT	Bulk
0.27 μ F	50	$\pm 10\%$	X7R	0.200"	CW30C274K	K274K30X7RFVCWU	Bulk
0.27 μ F	50	$\pm 20\%$	X7R	0.200"	CW30C274M	K274M30X7RFVCWU	Bulk
0.33 μ F	50	$\pm 10\%$	X7R	0.200"	CW30C334K	K334K30X7RFVCWW	Bulk
0.33 μ F	50	$\pm 20\%$	X7R	0.200"	CW30C334M	K334M30X7RFVCWW	Bulk
0.39 μ F	50	$\pm 10\%$	X7R	0.200"	CW30C394K	K394K30X7RFVCWX	Bulk
0.39 μ F	50	$\pm 20\%$	X7R	0.200"	CW30C394M	K394M30X7RFVCWX	Bulk
0.47 μ F	50	$\pm 10\%$	X7R	0.200"	CW30C474K	K474K30X7RFVCWY	Bulk
0.47 μ F	50	$\pm 20\%$	X7R	0.200"	CW30C474M	K474M30X7RFVCWY	Bulk
0.56 μ F	50	$\pm 10\%$	X7R	0.200"	CW40C564K	K564K30X7RFVCXA	Bulk
0.56 μ F	50	$\pm 20\%$	X7R	0.200"	CW40C564M	K564M30X7RFVCXA	Bulk
0.68 μ F	50	$\pm 10\%$	X7R	0.200"	CW40C684K	K684K30X7RFVCXB	Bulk
0.68 μ F	50	$\pm 20\%$	X7R	0.200"	CW40C684M	K684M30X7RFVCXB	Bulk
0.82 μ F	50	$\pm 10\%$	X7R	0.400"	CW50C824K	K824K30X7RFVHXC	Bulk
0.82 μ F	50	$\pm 20\%$	X7R	0.400"	CW50C824M	K824M30X7RFVHXC	Bulk
1.0 μ F	50	$\pm 10\%$	X7R	0.400"	CW40C105K	K105K30X7RFVHXD	Bulk
1.0 μ F	50	$\pm 20\%$	X7R	0.400"	CW40C105M	K105M30X7RFVHXD	Bulk
220 pF	100	$\pm 10\%$	X7R	0.100"	CW15A221K	K221K15X7RHVBWA	Bulk
220 pF	100	$\pm 20\%$	X7R	0.100"	CW15A221M	K221M15X7RHVBWA	Bulk
270 pF	100	$\pm 10\%$	X7R	0.100"	CW15A271K	K271K15X7RHVBWA	Bulk
270 pF	100	$\pm 20\%$	X7R	0.100"	CW15A271M	K271M15X7RHVBWA	Bulk
330 pF	100	$\pm 10\%$	X7R	0.100"	CW15A331K	K331K15X7RHVBWA	Bulk
330 pF	100	$\pm 20\%$	X7R	0.100"	CW15A331M	K331M15X7RHVBWA	Bulk
390 pF	100	$\pm 10\%$	X7R	0.100"	CW15A391K	K391K15X7RHVBWA	Bulk
390 pF	100	$\pm 20\%$	X7R	0.100"	CW15A391M	K391M15X7RHVBWA	Bulk
470 pF	100	$\pm 10\%$	X7R	0.100"	CW15A471K	K471K15X7RHVBWA	Bulk
470 pF	100	$\pm 20\%$	X7R	0.100"	CW15A471M	K471M15X7RHVBWA	Bulk

Mono-Kap Radial Conformal Coated Ceramic Capacitors

Dielectric: X7R

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
560 pF	100	±10%	X7R	0.100"	CW15A561K	K561K15X7RHVBWA	Bulk
560 pF	100	±20%	X7R	0.100"	CW15A561M	K561M15X7RHVBWA	Bulk
680 pF	100	±10%	X7R	0.100"	CW15A681K	K681K15X7RHVBWA	Bulk
680 pF	100	±20%	X7R	0.100"	CW15A681M	K681M15X7RHVBWA	Bulk
820 pF	100	±10%	X7R	0.100"	CW15A821K	K821K15X7RHVBWA	Bulk
820 pF	100	±20%	X7R	0.100"	CW15A821M	K821M15X7RHVBWA	Bulk
1000 pF	100	±10%	X7R	0.100"	CW15A102K	K102K15X7RHVBWA	Bulk
1000 pF	100	±20%	X7R	0.100"	CW15A102M	K102M15X7RHVBWA	Bulk
1200 pF	100	±10%	X7R	0.100"	CW15A122K	K122K15X7RHVBWA	Bulk
1200 pF	100	±20%	X7R	0.100"	CW15A122M	K122M15X7RHVBWA	Bulk
1500 pF	100	±10%	X7R	0.100"	CW15A152K	K152K15X7RHVBWA	Bulk
1500 pF	100	±20%	X7R	0.100"	CW15A152M	K152M15X7RHVBWA	Bulk
1800 pF	100	±10%	X7R	0.100"	CW15A182K	K182K15X7RHVBWA	Bulk
1800 pF	100	±20%	X7R	0.100"	CW15A182M	K182M15X7RHVBWA	Bulk
2200 pF	100	±10%	X7R	0.100"	CW15A222K	K222K15X7RHVBWA	Bulk
2200 pF	100	±20%	X7R	0.100"	CW15A222M	K222M15X7RHVBWA	Bulk
2700 pF	100	±10%	X7R	0.100"	CW15A272K	K272K15X7RHVBWA	Bulk
2700 pF	100	±20%	X7R	0.100"	CW15A272M	K272M15X7RHVBWA	Bulk
3300 pF	100	±10%	X7R	0.100"	CW15A332K	K332K15X7RHVBWA	Bulk
3300 pF	100	±20%	X7R	0.100"	CW15A332M	K332M15X7RHVBWA	Bulk
3900 pF	100	±10%	X7R	0.100"	CW15A392K	K392K15X7RHVBWA	Bulk
3900 pF	100	±20%	X7R	0.100"	CW15A392M	K392M15X7RHVBWA	Bulk
4700 pF	100	±10%	X7R	0.100"	CW15A472K	K472K15X7RHVBWA	Bulk
4700 pF	100	±20%	X7R	0.100"	CW15A472M	K472M15X7RHVBWA	Bulk
5600 pF	100	±10%	X7R	0.100"	CW15A562K	K562K15X7RHVBWA	Bulk
5600 pF	100	±20%	X7R	0.100"	CW15A562M	K562M15X7RHVBWA	Bulk
6800 pF	100	±10%	X7R	0.100"	CW20A682K	K682K15X7RHVBWA	Bulk
6800 pF	100	±20%	X7R	0.100"	CW20A682M	K682M15X7RHVBWA	Bulk
8200 pF	100	±10%	X7R	0.100"	CW20A822K	K822K15X7RHVBWA	Bulk
8200 pF	100	±20%	X7R	0.100"	CW20A822M	K822M15X7RHVBWA	Bulk
0.01 µF	100	±10%	X7R	0.100"	CW20A103K	K103K15X7RHVBWA	Bulk
0.01 µF	100	±20%	X7R	0.100"	CW20A103M	K103M15X7RHVBWA	Bulk
0.012 µF	100	±10%	X7R	0.100"	CW20A123K	K123K20X7RHVBWB	Bulk
0.012 µF	100	±20%	X7R	0.100"	CW20A123M	K123M20X7RHVBWB	Bulk
0.015 µF	100	±10%	X7R	0.100"	CW20A153K	K153K20X7RHVBWC	Bulk
0.015 µF	100	±20%	X7R	0.100"	CW20A153M	K153M20X7RHVBWC	Bulk
0.018 µF	100	±10%	X7R	0.100"	CW20A183K	K183K20X7RHVBWD	Bulk
0.018 µF	100	±20%	X7R	0.100"	CW20A183M	K183M20X7RHVBWD	Bulk
0.022 µF	100	±10%	X7R	0.100"	CW20A223K	K223K20X7RHVBWE	Bulk
0.022 µF	100	±20%	X7R	0.100"	CW20A223M	K223M20X7RHVBWE	Bulk
0.027 µF	100	±10%	X7R	0.100"	CW20A273K	K273K20X7RHVBWF	Bulk
0.027 µF	100	±20%	X7R	0.100"	CW20A273M	K273M20X7RHVBWF	Bulk
0.033 µF	100	±10%	X7R	0.100"	CW20A333K	K333K20X7RHVBWG	Bulk
0.033 µF	100	±20%	X7R	0.100"	CW20A333M	K333M20X7RHVBWG	Bulk
0.039 µF	100	±10%	X7R	0.100"	CW20A393K	K393K20X7RHVBWH	Bulk
0.039 µF	100	±20%	X7R	0.100"	CW20A393M	K393M20X7RHVBWH	Bulk
0.047 µF	100	±10%	X7R	0.100"	CW20A473K	K473K20X7RHVBWJ	Bulk
0.047 µF	100	±20%	X7R	0.100"	CW20A473M	K473M20X7RHVBWJ	Bulk
0.056 µF	100	±10%	X7R	0.100"	CW20A563K	K563K20X7RHVBWK	Bulk
0.056 µF	100	±20%	X7R	0.100"	CW20A563M	K563M20X7RHVBWK	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
0.068 μ F	100	$\pm 10\%$	X7R	0.100"	CW20A683K	K683K20X7RHVBWL	Bulk
0.068 μ F	100	$\pm 20\%$	X7R	0.100"	CW20A683M	K683M20X7RHVBWL	Bulk
0.082 μ F	100	$\pm 10\%$	X7R	0.100"	CW20A823K	K823K20X7RHVBWM	Bulk
0.082 μ F	100	$\pm 20\%$	X7R	0.100"	CW20A823M	K823M20X7RHVBWM	Bulk
0.1 μ F	100	$\pm 10\%$	X7R	0.100"	CW20A104K	K104K20X7RHVBWN	Bulk
0.1 μ F	100	$\pm 20\%$	X7R	0.100"	CW20A104M	K104M20X7RHVBWN	Bulk
0.12 μ F	100	$\pm 10\%$	X7R	0.200"	CW30A124K	K124K30X7RHVCWP	Bulk
0.12 μ F	100	$\pm 20\%$	X7R	0.200"	CW30A124M	K124M30X7RHVCWP	Bulk
0.15 μ F	100	$\pm 10\%$	X7R	0.200"	CW30A154K	K154K30X7RHVCWR	Bulk
0.15 μ F	100	$\pm 20\%$	X7R	0.200"	CW30A154M	K154M30X7RHVCWR	Bulk
0.18 μ F	100	$\pm 10\%$	X7R	0.200"	CW30A184K	K184K30X7RHVCWS	Bulk
0.18 μ F	100	$\pm 20\%$	X7R	0.200"	CW30A184M	K184M30X7RHVCWS	Bulk
0.22 μ F	100	$\pm 10\%$	X7R	0.200"	CW40A224K	K224K30X7RHVCWT	Bulk
0.22 μ F	100	$\pm 20\%$	X7R	0.200"	CW40A224M	K224M30X7RHVCWT	Bulk
0.27 μ F	100	$\pm 10\%$	X7R	0.200"	CW30A274K	K274K30X7RHVCWU	Bulk
0.27 μ F	100	$\pm 20\%$	X7R	0.200"	CW30A274M	K274M30X7RHVCWU	Bulk
0.33 μ F	100	$\pm 10\%$	X7R	0.200"	CW40A334K	K334K30X7RHVCWW	Bulk
0.33 μ F	100	$\pm 20\%$	X7R	0.200"	CW40A334M	K334M30X7RHVCWW	Bulk

Mono-Kap Radial Conformal Coated Ceramic Capacitors

Dielectric: Z5U

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
1000 pF	50	±20%	Z5U	0.100"	CZ15C102M	K102M15Z5UFVBWA	Bulk
1000 pF	50	+80/-20%	Z5U	0.100"	CZ15C102Z	K102Z15Z5UFVBWA	Bulk
1200 pF	50	±20%	Z5U	0.100"	CZ15C122M	K122M15Z5UFVBWA	Bulk
1200 pF	50	+80/-20%	Z5U	0.100"	CZ15C122Z	K122Z15Z5UFVBWA	Bulk
1500 pF	50	±20%	Z5U	0.100"	CZ15C152M	K152M15Z5UFVBWA	Bulk
1500 pF	50	+80/-20%	Z5U	0.100"	CZ15C152Z	K152Z15Z5UFVBWA	Bulk
1800 pF	50	±20%	Z5U	0.100"	CZ15C182M	K182M15Z5UFVBWA	Bulk
1800 pF	50	+80/-20%	Z5U	0.100"	CZ15C182Z	K182Z15Z5UFVBWA	Bulk
2200 pF	50	±20%	Z5U	0.100"	CZ15C222M	K222M15Z5UFVBWA	Bulk
2200 pF	50	+80/-20%	Z5U	0.100"	CZ15C222Z	K222Z15Z5UFVBWA	Bulk
2700 pF	50	±20%	Z5U	0.100"	CZ15C272M	K272M15Z5UFVBWA	Bulk
2700 pF	50	+80/-20%	Z5U	0.100"	CZ15C272Z	K272Z15Z5UFVBWA	Bulk
3300 pF	50	±20%	Z5U	0.100"	CZ15C332M	K332M15Z5UFVBWA	Bulk
3300 pF	50	+80/-20%	Z5U	0.100"	CZ15C332Z	K332Z15Z5UFVBWA	Bulk
3900 pF	50	±20%	Z5U	0.100"	CZ15C392M	K392M15Z5UFVBWA	Bulk
3900 pF	50	+80/-20%	Z5U	0.100"	CZ15C392Z	K392Z15Z5UFVBWA	Bulk
4700 pF	50	±20%	Z5U	0.100"	CZ15C472M	K472M15Z5UFVBWA	Bulk
4700 pF	50	+80/-20%	Z5U	0.100"	CZ15C472Z	K472Z15Z5UFVBWA	Bulk
5600 pF	50	±20%	Z5U	0.100"	CZ15C562M	K562M15Z5UFVBWA	Bulk
5600 pF	50	+80/-20%	Z5U	0.100"	CZ15C562Z	K562Z15Z5UFVBWA	Bulk
6800 pF	50	±20%	Z5U	0.100"	CZ15C682M	K682M15Z5UFVBWA	Bulk
6800 pF	50	+80/-20%	Z5U	0.100"	CZ15C682Z	K682Z15Z5UFVBWA	Bulk
8200 pF	50	±20%	Z5U	0.100"	CZ15C822M	K822M15Z5UFVBWA	Bulk
8200 pF	50	+80/-20%	Z5U	0.100"	CZ15C822Z	K822Z15Z5UFVBWA	Bulk
0.01 µF	50	±20%	Z5U	0.100"	CZ15C103M	K103M15Z5UFVBWA	Bulk
0.01 µF	50	+80/-20%	Z5U	0.100"	CZ15C103Z	K103Z15Z5UFVBWA	Bulk
0.012 µF	50	±20%	Z5U	0.100"	CZ15C123M	K123M15Z5UFVBWB	Bulk
0.012 µF	50	+80/-20%	Z5U	0.100"	CZ15C123Z	K123Z15Z5UFVBWB	Bulk
0.015 µF	50	±20%	Z5U	0.100"	CZ15C153M	K153M15Z5UFVBWC	Bulk
0.015 µF	50	+80/-20%	Z5U	0.100"	CZ15C153Z	K153Z15Z5UFVBWC	Bulk
0.018 µF	50	±20%	Z5U	0.100"	CZ15C183M	K183M15Z5UFVBWD	Bulk
0.018 µF	50	+80/-20%	Z5U	0.100"	CZ15C183Z	K183Z15Z5UFVBWD	Bulk
0.022 µF	50	±20%	Z5U	0.100"	CZ15C223M	K223M15Z5UFVBWE	Bulk
0.022 µF	50	+80/-20%	Z5U	0.100"	CZ15C223Z	K223Z15Z5UFVBWE	Bulk
0.027 µF	50	±20%	Z5U	0.100"	CZ15C273M	K273M15Z5UFVBWF	Bulk
0.027 µF	50	+80/-20%	Z5U	0.100"	CZ15C273Z	K273Z15Z5UFVBWF	Bulk
0.033 µF	50	±20%	Z5U	0.100"	CZ15C333M	K333M15Z5UFVBWG	Bulk
0.033 µF	50	+80/-20%	Z5U	0.100"	CZ15C333Z	K333Z15Z5UFVBWG	Bulk
0.039 µF	50	±20%	Z5U	0.100"	CZ15C393M	K393M15Z5UFVBWH	Bulk
0.039 µF	50	+80/-20%	Z5U	0.100"	CZ15C393Z	K393Z15Z5UFVBWH	Bulk
0.047 µF	50	±20%	Z5U	0.100"	CZ20C473M	K473M15Z5UFVBWJ	Bulk
0.047 µF	50	+80/-20%	Z5U	0.100"	CZ20C473Z	K473Z15Z5UFVBWJ	Bulk
0.056 µF	50	±20%	Z5U	0.100"	CZ15C563M	K563M15Z5UFVBWK	Bulk
0.056 µF	50	+80/-20%	Z5U	0.100"	CZ15C563Z	K563Z15Z5UFVBWK	Bulk
0.068 µF	50	±20%	Z5U	0.100"	CZ20C683M	K683M15Z5UFVBWL	Bulk
0.068 µF	50	+80/-20%	Z5U	0.100"	CZ20C683Z	K683Z15Z5UFVBWL	Bulk
0.82 µF	50	±20%	Z5U	0.100"	CZ15C823M	K823M15Z5UFVBWM	Bulk
0.82 µF	50	+80/-20%	Z5U	0.100"	CZ15C823Z	K823Z15Z5UFVBWM	Bulk
0.1 µF	50	±20%	Z5U	0.100"	CZ20C104M	K104M15Z5UFVBWN	Bulk
0.1 µF	50	+80/-20%	Z5U	0.100"	CZ20C104Z	K104Z15Z5UFVBWN	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
0.12 μ F	50	$\pm 20\%$	Z5U	0.100"	CZ20C124M	K124M20Z5UFVBWP	Bulk
0.12 μ F	50	+80/-20%	Z5U	0.100"	CZ20C124Z	K124Z20Z5UFVBWP	Bulk
0.15 μ F	50	$\pm 20\%$	Z5U	0.100"	CZ20C154M	K154M20Z5UFVBWR	Bulk
0.15 μ F	50	+80/-20%	Z5U	0.100"	CZ20C154Z	K154Z20Z5UFVBWR	Bulk
0.18 μ F	50	$\pm 20\%$	Z5U	0.100"	CZ20C184M	K184M20Z5UFVBWS	Bulk
0.18 μ F	50	+80/-20%	Z5U	0.100"	CZ20C184Z	K184Z20Z5UFVBWS	Bulk
0.22 μ F	50	$\pm 20\%$	Z5U	0.100"	CZ20C224M	K224M20Z5UFVBWT	Bulk
0.22 μ F	50	+80/-20%	Z5U	0.100"	CZ20C224Z	K224Z20Z5UFVBWT	Bulk
0.27 μ F	50	$\pm 20\%$	Z5U	0.100"	CZ20C274M	K274M20Z5UFVBWU	Bulk
0.27 μ F	50	+80/-20%	Z5U	0.100"	CZ20C274Z	K274Z20Z5UFVBWU	Bulk
0.33 μ F	50	$\pm 20\%$	Z5U	0.200"	CZ30C334M	K334M20Z5UFVCWW	Bulk
0.33 μ F	50	+80/-20%	Z5U	0.200"	CZ30C334Z	K334Z20Z5UFVCWW	Bulk
0.39 μ F	50	$\pm 20\%$	Z5U	0.200"	CZ30C394M	K394M30Z5UFVCWX	Bulk
0.39 μ F	50	+80/-20%	Z5U	0.200"	CZ30C394Z	K394Z30Z5UFVCWX	Bulk
0.47 μ F	50	$\pm 20\%$	Z5U	0.200"	CZ30C474M	K474M30Z5UFVCWY	Bulk
0.47 μ F	50	+80/-20%	Z5U	0.200"	CZ30C474Z	K474Z30Z5UFVCWY	Bulk
0.56 μ F	50	$\pm 20\%$	Z5U	0.200"	CZ30C564M	K564M30Z5UFVCXA	Bulk
0.56 μ F	50	+80/-20%	Z5U	0.200"	CZ30C564Z	K564Z30Z5UFVCXA	Bulk
0.68 μ F	50	$\pm 20\%$	Z5U	0.200"	CZ30C684M	K684M30Z5UFVCXB	Bulk
0.68 μ F	50	+80/-20%	Z5U	0.200"	CZ30C684Z	K684Z30Z5UFVCXB	Bulk
0.82 μ F	50	$\pm 20\%$	Z5U	0.200"	CZ30C824M	K824M30Z5UFVCXC	Bulk
0.82 μ F	50	+80/-20%	Z5U	0.200"	CZ30C824Z	K824Z30Z5UFVCXC	Bulk
1.0 μ F	50	$\pm 20\%$	Z5U	0.200"	CZ30C105M	K105M30Z5UFVCXD	Bulk
1.0 μ F	50	+80/-20%	Z5U	0.200"	CZ30C105Z	K105Z30Z5UFVCXD	Bulk
1000 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A102M	K102M15Z5UHV BWA	Bulk
1000 pF	100	+80/-20%	Z5U	0.100"	CZ15A102Z	K102Z15Z5UHV BWA	Bulk
1200 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A122M	K122M15Z5UHV BWA	Bulk
1200 pF	100	+80/-20%	Z5U	0.100"	CZ15A122Z	K122Z15Z5UHV BWA	Bulk
1500 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A152M	K152M15Z5UHV BWA	Bulk
1500 pF	100	+80/-20%	Z5U	0.100"	CZ15A152Z	K152Z15Z5UHV BWA	Bulk
1800 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A182M	K182M15Z5UHV BWA	Bulk
1800 pF	100	+80/-20%	Z5U	0.100"	CZ15A182Z	K182Z15Z5UHV BWA	Bulk
2200 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A222M	K222M15Z5UHV BWA	Bulk
2200 pF	100	+80/-20%	Z5U	0.100"	CZ15A222Z	K222Z15Z5UHV BWA	Bulk
2700 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A272M	K272M15Z5UHV BWA	Bulk
2700 pF	100	+80/-20%	Z5U	0.100"	CZ15A272Z	K272Z15Z5UHV BWA	Bulk
3300 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A332M	K332M15Z5UHV BWA	Bulk
3300 pF	100	+80/-20%	Z5U	0.100"	CZ15A332Z	K332Z15Z5UHV BWA	Bulk
3900 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A392M	K392M15Z5UHV BWA	Bulk
3900 pF	100	+80/-20%	Z5U	0.100"	CZ15A392Z	K392Z15Z5UHV BWA	Bulk
4700 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A472M	K472M15Z5UHV BWA	Bulk
4700 pF	100	+80/-20%	Z5U	0.100"	CZ15A472Z	K472Z15Z5UHV BWA	Bulk
5600 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A562M	K562M15Z5UHV BWA	Bulk
5600 pF	100	+80/-20%	Z5U	0.100"	CZ15A562Z	K562Z15Z5UHV BWA	Bulk
6800 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A682M	K682M15Z5UHV BWA	Bulk
6800 pF	100	+80/-20%	Z5U	0.100"	CZ15A682Z	K682Z15Z5UHV BWA	Bulk
8200 pF	100	$\pm 20\%$	Z5U	0.100"	CZ15A822M	K822M15Z5UHV BWA	Bulk
8200 pF	100	+80/-20%	Z5U	0.100"	CZ15A822Z	K822Z15Z5UHV BWA	Bulk
0.01 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ15A103M	K103M15Z5UHV BWA	Bulk
0.01 μ F	100	+80/-20%	Z5U	0.100"	CZ15A103Z	K103Z15Z5UHV BWA	Bulk

Mono-Kap Radial Conformal Coated Ceramic Capacitors

Dielectric: Z5U

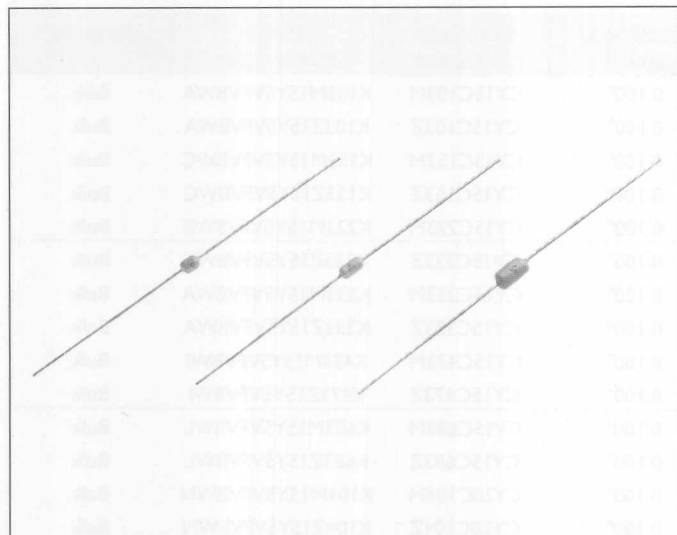
PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
0.012 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ15A123M	K123M15Z5UHVWBW	Bulk
0.012 μ F	100	+80/-20%	Z5U	0.100"	CZ15A123Z	K123Z15Z5UHVWBW	Bulk
0.015 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A153M	K153M20Z5UHVWBW	Bulk
0.015 μ F	100	+80/-20%	Z5U	0.100"	CZ20A153Z	K153Z20Z5UHVWBW	Bulk
0.018 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A183M	K183M20Z5UHVWBW	Bulk
0.018 μ F	100	+80/-20%	Z5U	0.100"	CZ20A183Z	K183Z20Z5UHVWBW	Bulk
0.022 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A223M	K223M20Z5UHVWBW	Bulk
0.022 μ F	100	+80/-20%	Z5U	0.100"	CZ20A223Z	K223Z20Z5UHVWBW	Bulk
0.027 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A273M	K273M20Z5UHVWBW	Bulk
0.027 μ F	100	+80/-20%	Z5U	0.100"	CZ20A273Z	K273Z20Z5UHVWBW	Bulk
0.033 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A333M	K333M20Z5UHVWBW	Bulk
0.033 μ F	100	+80/-20%	Z5U	0.100"	CZ20A333Z	K333Z20Z5UHVWBW	Bulk
0.039 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A393M	K393M20Z5UHVWBW	Bulk
0.039 μ F	100	+80/-20%	Z5U	0.100"	CZ20A393Z	K393Z20Z5UHVWBW	Bulk
0.047 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A473M	K473M20Z5UHVWBW	Bulk
0.047 μ F	100	+80/-20%	Z5U	0.100"	CZ20A473Z	K473Z20Z5UHVWBW	Bulk
0.056 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A563M	K563M20Z5UHVWBW	Bulk
0.056 μ F	100	+80/-20%	Z5U	0.100"	CZ20A563Z	K563Z20Z5UHVWBW	Bulk
0.068 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A683M	K683M20Z5UHVWBW	Bulk
0.068 μ F	100	+80/-20%	Z5U	0.100"	CZ20A683Z	K683Z20Z5UHVWBW	Bulk
0.082 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A823M	K823M20Z5UHVWBW	Bulk
0.082 μ F	100	+80/-20%	Z5U	0.100"	CZ20A823Z	K823Z20Z5UHVWBW	Bulk
0.1 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A104M	K104M20Z5UHVWBW	Bulk
0.1 μ F	100	+80/-20%	Z5U	0.100"	CZ20A104Z	K104Z20Z5UHVWBW	Bulk
0.12 μ F	100	$\pm 20\%$	Z5U	0.100"	CZ20A124M	K124M20Z5UHVWBW	Bulk
0.12 μ F	100	+80/-20%	Z5U	0.100"	CZ20A124Z	K124Z20Z5UHVWBW	Bulk
0.15 μ F	100	$\pm 20\%$	Z5U	0.200"	CZ30A154M	K154M30Z5UHVWBW	Bulk
0.15 μ F	100	+80/-20%	Z5U	0.200"	CZ30A154Z	K154Z30Z5UHVWBW	Bulk
0.18 μ F	100	$\pm 20\%$	Z5U	0.200"	CZ30A184M	K184M30Z5UHVWBW	Bulk
0.18 μ F	100	+80/-20%	Z5U	0.200"	CZ30A184Z	K184Z30Z5UHVWBW	Bulk
0.22 μ F	100	$\pm 20\%$	Z5U	0.200"	CZ30A224M	K224M30Z5UHVWBW	Bulk
0.22 μ F	100	+80/-20%	Z5U	0.200"	CZ30A224Z	K224Z30Z5UHVWBW	Bulk
0.27 μ F	100	$\pm 20\%$	Z5U	0.200"	CZ30A274M	K274M30Z5UHVWBW	Bulk
0.27 μ F	100	+80/-20%	Z5U	0.200"	CZ30A274Z	K274Z30Z5UHVWBW	Bulk
0.33 μ F	100	$\pm 20\%$	Z5U	0.200"	CZ30A334M	K334M30Z5UHVWBW	Bulk
0.33 μ F	100	+80/-20%	Z5U	0.200"	CZ30A334Z	K334Z30Z5UHVWBW	Bulk
0.39 μ F	100	$\pm 20\%$	Z5U	0.200"	CZ30A394M	K394M30Z5UHVWBW	Bulk
0.39 μ F	100	+80/-20%	Z5U	0.200"	CZ30A394Z	K394Z30Z5UHVWBW	Bulk
0.47 μ F	100	$\pm 20\%$	Z5U	0.200"	CZ30A474M	K474M30Z5UHVWBW	Bulk
0.47 μ F	100	+80/-20%	Z5U	0.200"	CZ30A474Z	K474Z30Z5UHVWBW	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
0.01 μF	50	$\pm 20\%$	Y5V	0.100"	CY15C103M	K103M15Y5VFVBWA	Bulk
0.01 μF	50	+80/-20%	Y5V	0.100"	CY15C103Z	K103Z15Y5VFVBWA	Bulk
0.015 μF	50	$\pm 20\%$	Y5V	0.100"	CY15C153M	K153M15Y5VFVBWC	Bulk
0.015 μF	50	+80/-20%	Y5V	0.100"	CY15C153Z	K153Z15Y5VFVBWC	Bulk
0.022 μF	50	$\pm 20\%$	Y5V	0.100"	CY15C223M	K223M15Y5VFVBWE	Bulk
0.022 μF	50	+80/-20%	Y5V	0.100"	CY15C223Z	K223Z15Y5VFVBWE	Bulk
0.033 μF	50	$\pm 20\%$	Y5V	0.100"	CY15C333M	K333M15Y5VFVBWA	Bulk
0.033 μF	50	+80/-20%	Y5V	0.100"	CY15C333Z	K333Z15Y5VFVBWA	Bulk
0.047 μF	50	$\pm 20\%$	Y5V	0.100"	CY15C473M	K473M15Y5VFVBWJ	Bulk
0.047 μF	50	+80/-20%	Y5V	0.100"	CY15C473Z	K473Z15Y5VFVBWJ	Bulk
0.068 μF	50	$\pm 20\%$	Y5V	0.100"	CY15C683M	K683M15Y5VFVBWL	Bulk
0.068 μF	50	+80/-20%	Y5V	0.100"	CY15C683Z	K683Z15Y5VFVBWL	Bulk
0.1 μF	50	$\pm 20\%$	Y5V	0.100"	CY20C104M	K104M15Y5VFVBWN	Bulk
0.1 μF	50	+80/-20%	Y5V	0.100"	CY20C104Z	K104Z15Y5VFVBWN	Bulk
0.15 μF	50	$\pm 20\%$	Y5V	0.100"	CY20C154M	K154M20Y5VFVBWR	Bulk
0.15 μF	50	+80/-20%	Y5V	0.100"	CY20C154Z	K154Z20Y5VFVBWR	Bulk
0.22 μF	50	$\pm 20\%$	Y5V	0.100"	CY20C224M	K224M20Y5VFVBWT	Bulk
0.22 μF	50	+80/-20%	Y5V	0.100"	CY20C224Z	K224Z20Y5VFVBWT	Bulk
0.33 μF	50	$\pm 20\%$	Y5V	0.100"	CY20C334M	K334M20Y5VFVBWW	Bulk
0.33 μF	50	+80/-20%	Y5V	0.100"	CY20C334Z	K334Z20Y5VFVBWW	Bulk
0.47 μF	50	$\pm 20\%$	Y5V	0.100"	CY20C474M	K474M20Y5VFVBWY	Bulk
0.47 μF	50	+80/-20%	Y5V	0.100"	CY20C474Z	K474Z20Y5VFVBWY	Bulk
0.68 μF	50	$\pm 20\%$	Y5V	0.200"	CY30C684M	K684M30Y5VFVCXB	Bulk
0.68 μF	50	+80/-20%	Y5V	0.200"	CY30C684Z	K684Z30Y5VFVCXB	Bulk
1.0 μF	50	$\pm 20\%$	Y5V	0.200"	CY30C105M	K105M30Y5VFVCXD	Bulk
1.0 μF	50	+80/-20%	Y5V	0.200"	CY30C105Z	K105Z30Y5VFVCXD	Bulk



**Part Number**

- See Table 1

Marking

- See Figure 1 for Marking Specifications

Packaging

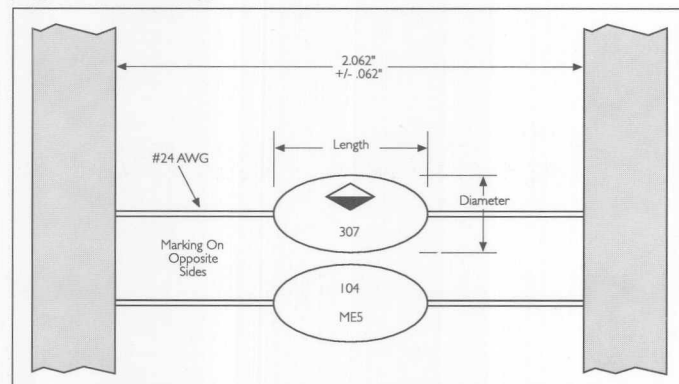
- Available Tape & Reel.

Lead Material Available

- #24 AWG (0.020" \pm 0.001") tinned, copper clad steel. 30% conductivity. Temper: soft. Tensile strength: 65000 PSL max.

Encapsulation

- Conformally Coated Epoxy

Figure 1 Marking

Mono-Axial Leaded Conformal Coated Ceramic Capacitors

Features

- Axial Leads for Convenient Printed Board Assembly
- Rugged Epoxy Coating for Environmental Protection
- Voltage Ranges from 25 to 100 VDC
- Four Standard Dielectric Materials: NPO, X7R, Z5U & Y5V

Electrical Parameters

Capacitance Range:

Material	Voltage		
	25V	50V	100V
C0G	-	10 pF to 6800 pF	10 pF to 4700 pF
X7R	-	220 pF to 0.22 μ F	220 pF to 0.1 μ F
Z5U	-	1000 pF to 0.47 μ F	1000 pF to 0.1 μ F
Y5V	0.01 μ F to 0.47 μ F	0.012 μ F to 0.47 μ F	-

Capacitance Tolerance:

C0G: ± 0.25 pF, ± 0.5 pF, $\pm 5\%$ & $\pm 10\%$
 X7R: $\pm 5\%$, $\pm 10\%$ & $\pm 20\%$
 Z5U & Y5V: $\pm 20\%$ & $+80\%/-20\%$

Temperature Characteristics:

C0G: 0 ± 30 ppm/C, -55°C to $+125^\circ\text{C}$
 X7R: $\pm 15\%$, -55°C to $+125^\circ\text{C}$
 Z5U: $+22\%$ to -56% , $+10^\circ\text{C}$ to $+85^\circ\text{C}$
 Y5V: $+22\%$ to -56% , $+30^\circ\text{C}$ to $+85^\circ\text{C}$

Marking Code:

Side One -	Logo		
	Datecode, year and week		
Side Two -	Coded Capacitance Value		
	TOL Code	T.C. Code	Voltage Code
	J = $\pm 5\%$	A = C0G	1 = 100V
	K = $\pm 10\%$	C = X7R	5 = 50V
	M = $\pm 20\%$	E = Z5U	
	Z = $+80\%$ -20%		

Table 1
Series A Part Number

A	104	M	15	Z5U	F	VV	WN
A Mono-Axial product line	Capacitance Value (pF) First 2 digits are significant; third digit is a multiplier as follows: 0 x 1 1 x 10 2 x 100 3 x 1000 4 x 10,000 5 x 100,000	Tolerance Code J \pm 5% (C0G only) K \pm 10% (C0G and X7R) M \pm 20% (X7R, Z5U, Y5V) Z +80/ -20% (Z5U, Y5V) Size Code 15 .150" long .100" diameter 20 .200" long .120" diameter 29 .290" long .150" diameter		C0G X7R Z5U Y5V	Voltage Code F 50VDC (C0G, X7R, Z5U, Y5V) H 100VDC (C0G, X7R, Z5U) K 200VDC (C0G, X7R)		

VV Taped & Reeled per
EIA RS296D Class 1
5K Reel 15,20 Size
2.5K Reel 29 Size
.020" diameter tin plated
CCS wire leads

Mono-Axial™ Distributor Part Number
Conformal Coated Axial

A40	C	102	J
Temperature Characteristics A40 = NP0 A41 = X7R A43 = Z5U	Working Voltage DC A = 100V C = 50V	Capacitance (pF) 102 = 1,000 pF i.e. the third digit signifies the number of zeros	Tolerance J = \pm 5% K = \pm 10% M = \pm 20% Z = +80/-20%

Capacitance Value in μ F	Test Code Minimum IR in Meg Ω	Detail Code
$\leq .01$	100000	WA
.012	84000	WB
.015	67000	WC
.018	56000	WD
.022	46000	WE
.027	37000	WF
.033	31000	WG
.039	26000	WH
.047	22000	WJ
.056	18000	WK
.068	15000	WL
.082	12000	WM
.100	10000	WN
.120	8400	WP
.150	6700	WR
.180	5600	WS
.220	4600	WT
.270	3700	WU
.330	3100	WW
.390	2600	WX
.470	2200	WY
.560	1800	XA
.680	1500	XB
.820	1200	XC
1.0	1000	XD

Dimensions/millimeter (inch)

Size	L max	D max
15	3.81 (.150)	2.54 (.100)
20	5.08 (.200)	3.05 (.120)
29	7.37 (.290)	3.81 (.150)

Conversion Factors
1 inch = 25.4001 mm
1 mm = 0.03937 inch

Mono-Axial Conformal Coated Ceramic Capacitors

Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
10 pF	50	±5%	C0G	A40C100J	A100J15C0GFVWWA	Tape & Reel
10 pF	50	±10%	C0G	A40C100K	A100K15C0GFVWWA	Tape & Reel
12 pF	50	±5%	C0G	A40C120J	A120J15C0GFVWWA	Tape & Reel
12 pF	50	±10%	C0G	A40C120K	A120K15C0GFVWWA	Tape & Reel
15 pF	50	±5%	C0G	A40C150J	A150J15C0GFVWWA	Tape & Reel
15 pF	50	±10%	C0G	A40C150K	A150K15C0GFVWWA	Tape & Reel
18 pF	50	±5%	C0G	A40C180J	A180J15C0GFVWWA	Tape & Reel
18 pF	50	±10%	C0G	A40C180K	A180K15C0GFVWWA	Tape & Reel
22 pF	50	±5%	C0G	A40C220J	A220J15C0GFVWWA	Tape & Reel
22 pF	50	±10%	C0G	A40C220K	A220K15C0GFVWWA	Tape & Reel
27 pF	50	±5%	C0G	A40C270J	A270J15C0GFVWWA	Tape & Reel
27 pF	50	±10%	C0G	A40C270K	A270K15C0GFVWWA	Tape & Reel
33 pF	50	±5%	C0G	A40C330J	A330J15C0GFVWWA	Tape & Reel
33 pF	50	±10%	C0G	A40C330K	A330K15C0GFVWWA	Tape & Reel
39 pF	50	±5%	C0G	A40C390J	A390J15C0GFVWWA	Tape & Reel
39 pF	50	±10%	C0G	A40C390K	A390K15C0GFVWWA	Tape & Reel
47 pF	50	±5%	C0G	A40C470J	A470J15C0GFVWWA	Tape & Reel
47 pF	50	±10%	C0G	A40C470K	A470K15C0GFVWWA	Tape & Reel
56 pF	50	±5%	C0G	A40C560J	A560J15C0GFVWWA	Tape & Reel
56 pF	50	±10%	C0G	A40C560K	A560K15C0GFVWWA	Tape & Reel
68 pF	50	±5%	C0G	A40C680J	A680J15C0GFVWWA	Tape & Reel
68 pF	50	±10%	C0G	A40C680K	A680K15C0GFVWWA	Tape & Reel
82 pF	50	±5%	C0G	A40C820J	A820J15C0GFVWWA	Tape & Reel
82 pF	50	±10%	C0G	A40C820K	A820K15C0GFVWWA	Tape & Reel
100 pF	50	±5%	C0G	A40C101J	A101J15C0GFVWWA	Tape & Reel
100 pF	50	±10%	C0G	A40C101K	A101K15C0GFVWWA	Tape & Reel
120 pF	50	±5%	C0G	A40C121J	A121J15C0GFVWWA	Tape & Reel
120 pF	50	±10%	C0G	A40C121K	A121K15C0GFVWWA	Tape & Reel
150 pF	50	±5%	C0G	A40C151J	A151J15C0GFVWWA	Tape & Reel
150 pF	50	±10%	C0G	A40C151K	A151K15C0GFVWWA	Tape & Reel
180 pF	50	±5%	C0G	A40C181J	A181J15C0GFVWWA	Tape & Reel
180 pF	50	±10%	C0G	A40C181K	A181K15C0GFVWWA	Tape & Reel
220 pF	50	±5%	C0G	A40C221J	A221J15C0GFVWWA	Tape & Reel
220 pF	50	±10%	C0G	A40C221K	A221K15C0GFVWWA	Tape & Reel
270 pF	50	±5%	C0G	A40C271J	A271J15C0GFVWWA	Tape & Reel
270 pF	50	±10%	C0G	A40C271K	A271K15C0GFVWWA	Tape & Reel
330 pF	50	±5%	C0G	A40C331J	A331J15C0GFVWWA	Tape & Reel
330 pF	50	±10%	C0G	A40C331K	A331K15C0GFVWWA	Tape & Reel
390 pF	50	±5%	C0G	A40C391J	A391J15C0GFVWWA	Tape & Reel
390 pF	50	±10%	C0G	A40C391K	A391K15C0GFVWWA	Tape & Reel
470 pF	50	±5%	C0G	A40C471J	A471J15C0GFVWWA	Tape & Reel
470 pF	50	±10%	C0G	A40C471K	A471K15C0GFVWWA	Tape & Reel
560 pF	50	±5%	C0G	A40C561J	A561J15C0GFVWWA	Tape & Reel
560 pF	50	±10%	C0G	A40C561K	A561K15C0GFVWWA	Tape & Reel
680 pF	50	±5%	C0G	A40C681J	A681J15C0GFVWWA	Tape & Reel
680 pF	50	±10%	C0G	A40C681K	A681K15C0GFVWWA	Tape & Reel
820 pF	50	±5%	C0G	A40C821J	A821J15C0GFVWWA	Tape & Reel
820 pF	50	±10%	C0G	A40C821K	A821K15C0GFVWWA	Tape & Reel
1000 pF	50	±5%	C0G	A40C102J	A102J15C0GFVWWA	Tape & Reel
1000 pF	50	±10%	C0G	A40C102K	A102K15C0GFVWWA	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
1200 pF	50	±5%	C0G	A40C122J	A122J20C0GFVWWA	Tape & Reel
1200 pF	50	±10%	C0G	A40C122K	A122K20C0GFVWWA	Tape & Reel
1500 pF	50	±5%	C0G	A40C152J	A152J20C0GFVWWA	Tape & Reel
1500 pF	50	±10%	C0G	A40C152K	A152K20C0GFVWWA	Tape & Reel
1800 pF	50	±5%	C0G	A40C182J	A182J20C0GFVWWA	Tape & Reel
1800 pF	50	±10%	C0G	A40C182K	A182K20C0GFVWWA	Tape & Reel
2200 pF	50	±5%	C0G	A40C222J	A222J20C0GFVWWA	Tape & Reel
2200 pF	50	±10%	C0G	A40C222K	A222K20C0GFVWWA	Tape & Reel
2700 pF	50	±5%	C0G	A40C272J	A272J20C0GFVWWA	Tape & Reel
2700 pF	50	±10%	C0G	A40C272K	A272K20C0GFVWWA	Tape & Reel
3300 pF	50	±5%	C0G	A40C332J	A332J20C0GFVWWA	Tape & Reel
3300 pF	50	±10%	C0G	A40C332K	A332K20C0GFVWWA	Tape & Reel
3900 pF	50	±5%	C0G	A40C392J	A392J29C0GFVWWA	Tape & Reel
3900 pF	50	±10%	C0G	A40C392K	A392K29C0GFVWWA	Tape & Reel
4700 pF	50	±5%	C0G	A40C472J	A472J29C0GFVWWA	Tape & Reel
4700 pF	50	±10%	C0G	A40C472K	A472K29C0GFVWWA	Tape & Reel
5600 pF	50	±5%	C0G	A40C562J	A562J29C0GFVWWA	Tape & Reel
5600 pF	50	±10%	C0G	A40C562K	A562K29C0GFVWWA	Tape & Reel
6800 pF	50	±5%	C0G	A40C682J	A682J29C0GFVWWA	Tape & Reel
6800 pF	50	±10%	C0G	A40C682K	A682K29C0GFVWWA	Tape & Reel
10 pF	100	±5%	C0G	A40A100J	A100J15C0GHVWWA	Tape & Reel
10 pF	100	±10%	C0G	A40A100K	A100K15C0GHVWWA	Tape & Reel
12 pF	100	±5%	C0G	A40A120J	A120J15C0GHVWWA	Tape & Reel
12 pF	100	±10%	C0G	A40A120K	A120K15C0GHVWWA	Tape & Reel
15 pF	100	±5%	C0G	A40A150J	A150J15C0GHVWWA	Tape & Reel
15 pF	100	±10%	C0G	A40A150K	A150K15C0GHVWWA	Tape & Reel
18 pF	100	±5%	C0G	A40A180J	A180J15C0GHVWWA	Tape & Reel
18 pF	100	±10%	C0G	A40A180K	A180K15C0GHVWWA	Tape & Reel
22 pF	100	±5%	C0G	A40A220J	A220J15C0GHVWWA	Tape & Reel
22 pF	100	±10%	C0G	A40A220K	A220K15C0GHVWWA	Tape & Reel
27 pF	100	±5%	C0G	A40A270J	A270J15C0GHVWWA	Tape & Reel
27 pF	100	±10%	C0G	A40A270K	A270K15C0GHVWWA	Tape & Reel
33 pF	100	±5%	C0G	A40A330J	A330J15C0GHVWWA	Tape & Reel
33 pF	100	±10%	C0G	A40A330K	A330K15C0GHVWWA	Tape & Reel
39 pF	100	±5%	C0G	A40A390J	A390J15C0GHVWWA	Tape & Reel
39 pF	100	±10%	C0G	A40A390K	A390K15C0GHVWWA	Tape & Reel
47 pF	100	±5%	C0G	A40A470J	A470J15C0GHVWWA	Tape & Reel
47 pF	100	±10%	C0G	A40A470K	A470K15C0GHVWWA	Tape & Reel
56 pF	100	±5%	C0G	A40A560J	A560J15C0GHVWWA	Tape & Reel
56 pF	100	±10%	C0G	A40A560K	A560K15C0GHVWWA	Tape & Reel
68 pF	100	±5%	C0G	A40A680J	A680J15C0GHVWWA	Tape & Reel
68 pF	100	±10%	C0G	A40A680K	A680K15C0GHVWWA	Tape & Reel
82 pF	100	±5%	C0G	A40A820J	A820J15C0GHVWWA	Tape & Reel
82 pF	100	±10%	C0G	A40A820K	A820K15C0GHVWWA	Tape & Reel
100 pF	100	±5%	C0G	A40A101J	A101J15C0GHVWWA	Tape & Reel
100 pF	100	±10%	C0G	A40A101K	A101K15C0GHVWWA	Tape & Reel
120 pF	100	±5%	C0G	A40A121J	A121J15C0GHVWWA	Tape & Reel
120 pF	100	±10%	C0G	A40A121K	A121K15C0GHVWWA	Tape & Reel
150 pF	100	±5%	C0G	A40A151J	A151J15C0GHVWWA	Tape & Reel
150 pF	100	±10%	C0G	A40A151K	A151K15C0GHVWWA	Tape & Reel

Mono-Axial Conformal Coated Ceramic Capacitors

Dielectric: C0G

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
180 pF	100	±5%	C0G	A40A181J	A181J15C0GHVWWA	Tape & Reel
180 pF	100	±10%	C0G	A40A181K	A181K15C0GHVWWA	Tape & Reel
220 pF	100	±5%	C0G	A40A221J	A221J15C0GHVWWA	Tape & Reel
220 pF	100	±10%	C0G	A40A221K	A221K15C0GHVWWA	Tape & Reel
270 pF	100	±5%	C0G	A40A271J	A271J15C0GHVWWA	Tape & Reel
270 pF	100	±10%	C0G	A40A271K	A271K15C0GHVWWA	Tape & Reel
330 pF	100	±5%	C0G	A40A331J	A331J15C0GHVWWA	Tape & Reel
330 pF	100	±10%	C0G	A40A331K	A331K15C0GHVWWA	Tape & Reel
390 pF	100	±5%	C0G	A40A391J	A391J15C0GHVWWA	Tape & Reel
390 pF	100	±10%	C0G	A40A391K	A391K15C0GHVWWA	Tape & Reel
470 pF	100	±5%	C0G	A40A471J	A471J15C0GHVWWA	Tape & Reel
470 pF	100	±10%	C0G	A40A471K	A471K15C0GHVWWA	Tape & Reel
560 pF	100	±5%	C0G	A40A561J	A561J15C0GHVWWA	Tape & Reel
560 pF	100	±10%	C0G	A40A561K	A561K15C0GHVWWA	Tape & Reel
680 pF	100	±5%	C0G	A40A681J	A681J15C0GHVWWA	Tape & Reel
680 pF	100	±10%	C0G	A40A681K	A681K15C0GHVWWA	Tape & Reel
820 pF	100	±5%	C0G	A40A821J	A821J15C0GHVWWA	Tape & Reel
820 pF	100	±10%	C0G	A40A821K	A821K15C0GHVWWA	Tape & Reel
1000 pF	100	±5%	C0G	A40A102J	A102J20C0GHVWWA	Tape & Reel
1000 pF	100	±10%	C0G	A40A102K	A102K20C0GHVWWA	Tape & Reel
1200 pF	100	±5%	C0G	A40A122J	A122J20C0GHVWWA	Tape & Reel
1200 pF	100	±10%	C0G	A40A122K	A122K20C0GHVWWA	Tape & Reel
1500 pF	100	±5%	C0G	A40A152J	A152J20C0GHVWWA	Tape & Reel
1500 pF	100	±10%	C0G	A40A152K	A152K20C0GHVWWA	Tape & Reel
1800 pF	100	±5%	C0G	A40A182J	A182J20C0GHVWWA	Tape & Reel
1800 pF	100	±10%	C0G	A40A182K	A182K20C0GHVWWA	Tape & Reel
2200 pF	100	±5%	C0G	A40A222J	A222J20C0GHVWWA	Tape & Reel
2200 pF	100	±10%	C0G	A40A222K	A222K20C0GHVWWA	Tape & Reel
2700 pF	100	±5%	C0G	A40A272J	A272J29C0GHVWWA	Tape & Reel
2700 pF	100	±10%	C0G	A40A272K	A272K29C0GHVWWA	Tape & Reel
3300 pF	100	±5%	C0G	A40A332J	A332J29C0GHVWWA	Tape & Reel
3300 pF	100	±10%	C0G	A40A332K	A332K29C0GHVWWA	Tape & Reel
3900 pF	100	±5%	C0G	A40A392J	A392J29C0GHVWWA	Tape & Reel
3900 pF	100	±10%	C0G	A40A392K	A392K29C0GHVWWA	Tape & Reel
4700 pF	100	±5%	C0G	A40A472J	A472J29C0GHVWWA	Tape & Reel
4700 pF	100	±10%	C0G	A40A472K	A472K29C0GHVWWA	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
220 pF	50	±10%	X7R	A41C221K	A221K15X7RFVWWA	Tape & Reel
220 pF	50	±20%	X7R	A41C221M	A221M15X7RFVWWA	Tape & Reel
270 pF	50	±10%	X7R	A41C271K	A271K15X7RFVWWA	Tape & Reel
270 pF	50	±20%	X7R	A41C271M	A271M15X7RFVWWA	Tape & Reel
330 pF	50	±10%	X7R	A41C331K	A331K15X7RFVWWA	Tape & Reel
330 pF	50	±20%	X7R	A41C331M	A331M15X7RFVWWA	Tape & Reel
390 pF	50	±10%	X7R	A41C391K	A391K15X7RFVWWA	Tape & Reel
390 pF	50	±20%	X7R	A41C391M	A391M15X7RFVWWA	Tape & Reel
470 pF	50	±10%	X7R	A41C471K	A471K15X7RFVWWA	Tape & Reel
470 pF	50	±20%	X7R	A41C471M	A471M15X7RFVWWA	Tape & Reel
560 pF	50	±10%	X7R	A41C561K	A561K15X7RFVWWA	Tape & Reel
560 pF	50	±20%	X7R	A41C471M	A561M15X7RFVWWA	Tape & Reel
680 pF	50	±10%	X7R	A41C681K	A681K15X7RFVWWA	Tape & Reel
680 pF	50	±20%	X7R	A41C681M	A681M15X7RFVWWA	Tape & Reel
820 pF	50	±10%	X7R	A41C821K	A821K15X7RFVWWA	Tape & Reel
820 pF	50	±20%	X7R	A41C821M	A821M15X7RFVWWA	Tape & Reel
1000 pF	50	±10%	X7R	A41C102K	A102K15X7RFVWWA	Tape & Reel
1000 pF	50	±20%	X7R	A41C102M	A102M15X7RFVWWA	Tape & Reel
1200 pF	50	±10%	X7R	A41C122K	A122K15X7RFVWWA	Tape & Reel
1200 pF	50	±20%	X7R	A41C122M	A122M15X7RFVWWA	Tape & Reel
1500 pF	50	±10%	X7R	A41C152K	A152K15X7RFVWWA	Tape & Reel
1500 pF	50	±20%	X7R	A41C152M	A152M15X7RFVWWA	Tape & Reel
1800 pF	50	±10%	X7R	A41C182K	A182K15X7RFVWWA	Tape & Reel
1800 pF	50	±20%	X7R	A41C182M	A182M15X7RFVWWA	Tape & Reel
2200 pF	50	±10%	X7R	A41C222K	A222K15X7RFVWWA	Tape & Reel
2200 pF	50	±20%	X7R	A41C222M	A222M15X7RFVWWA	Tape & Reel
2700 pF	50	±10%	X7R	A41C272K	A272K15X7RFVWWA	Tape & Reel
2700 pF	50	±20%	X7R	A41C272M	A272M15X7RFVWWA	Tape & Reel
3300 pF	50	±10%	X7R	A41C332K	A332K15X7RFVWWA	Tape & Reel
3300 pF	50	±20%	X7R	A41C332M	A332M15X7RFVWWA	Tape & Reel
3900 pF	50	±10%	X7R	A41C392K	A392K15X7RFVWWA	Tape & Reel
3900 pF	50	±20%	X7R	A41C392M	A392M15X7RFVWWA	Tape & Reel
4700 pF	50	±10%	X7R	A41C472K	A472K15X7RFVWWA	Tape & Reel
4700 pF	50	±20%	X7R	A41C472M	A472M15X7RFVWWA	Tape & Reel
5600 pF	50	±10%	X7R	A41C562K	A562K15X7RFVWWA	Tape & Reel
5600 pF	50	±20%	X7R	A41C562M	A562M15X7RFVWWA	Tape & Reel
6800 pF	50	±10%	X7R	A41C682K	A682K15X7RFVWWA	Tape & Reel
6800 pF	50	±20%	X7R	A41C682M	A682M15X7RFVWWA	Tape & Reel
8200 pF	50	±10%	X7R	A41C822K	A822K15X7RFVWWA	Tape & Reel
8200 pF	50	±20%	X7R	A41C822M	A822M15X7RFVWWA	Tape & Reel
0.01 µF	50	±10%	X7R	A41C103K	A103K15X7RFVWWA	Tape & Reel
0.01 µF	50	±20%	X7R	A41C103M	A103M15X7RFVWWA	Tape & Reel
0.012 µF	50	±10%	X7R	A41C123K	A123K15X7RFVWWB	Tape & Reel
0.012 µF	50	±20%	X7R	A41C123M	A123M15X7RFVWWB	Tape & Reel
0.015 µF	50	±10%	X7R	A41C153K	A153K15X7RFVWWC	Tape & Reel
0.015 µF	50	±20%	X7R	A41C153M	A153M15X7RFVWWC	Tape & Reel
0.018 µF	50	±10%	X7R	A41C183K	A183K15X7RFVWWD	Tape & Reel
0.018 µF	50	±20%	X7R	A41C183M	A183M15X7RFVWWD	Tape & Reel
0.022 µF	50	±10%	X7R	A41C223K	A223K15X7RFVWWE	Tape & Reel
0.022 µF	50	±20%	X7R	A41C223M	A223M15X7RFVWWE	Tape & Reel

Mono-Axial Conformal Coated Ceramic Capacitors

Dielectric: X7R

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
0.027 μ F	50	$\pm 10\%$	X7R	A41C273K	A273K15X7RFVWWF	Tape & Reel
0.027 μ F	50	$\pm 20\%$	X7R	A41C273M	A273M15X7RFVWWF	Tape & Reel
0.033 μ F	50	$\pm 10\%$	X7R	A41C333K	A333K15X7RFVWWG	Tape & Reel
0.033 μ F	50	$\pm 20\%$	X7R	A41C333M	A333M15X7RFVWWG	Tape & Reel
0.039 μ F	50	$\pm 10\%$	X7R	A41C393K	A393K20X7RFVWWH	Tape & Reel
0.039 μ F	50	$\pm 20\%$	X7R	A41C393M	A393M20X7RFVWWH	Tape & Reel
0.047 μ F	50	$\pm 10\%$	X7R	A41C473K	A473K20X7RFVWWJ	Tape & Reel
0.047 μ F	50	$\pm 20\%$	X7R	A41C473M	A473M20X7RFVWWJ	Tape & Reel
0.056 μ F	50	$\pm 10\%$	X7R	A41C563K	A563K20X7RFVWWK	Tape & Reel
0.056 μ F	50	$\pm 20\%$	X7R	A41C563M	A563M20X7RFVWWK	Tape & Reel
0.068 μ F	50	$\pm 10\%$	X7R	A41C683K	A683K20X7RFVWWL	Tape & Reel
0.068 μ F	50	$\pm 20\%$	X7R	A41C683M	A683M20X7RFVWWL	Tape & Reel
0.082 μ F	50	$\pm 10\%$	X7R	A41C823K	A823K20X7RFVWWM	Tape & Reel
0.082 μ F	50	$\pm 20\%$	X7R	A41C823M	A823M20X7RFVWWM	Tape & Reel
0.1 μ F	50	$\pm 10\%$	X7R	A41C104K	A104K20X7RFVWWN	Tape & Reel
0.1 μ F	50	$\pm 20\%$	X7R	A41C104M	A104M20X7RFVWWN	Tape & Reel
0.12 μ F	50	$\pm 10\%$	X7R	A41C124K	A124K29X7RFVWWP	Tape & Reel
0.12 μ F	50	$\pm 20\%$	X7R	A41C124M	A124M29X7RFVWWP	Tape & Reel
0.15 μ F	50	$\pm 10\%$	X7R	A41C154K	A154K29X7RFVWWR	Tape & Reel
0.15 μ F	50	$\pm 20\%$	X7R	A41C154M	A154M29X7RFVWWR	Tape & Reel
0.18 μ F	50	$\pm 10\%$	X7R	A41C184K	A184K29X7RFVWWS	Tape & Reel
0.18 μ F	50	$\pm 20\%$	X7R	A41C184M	A184M29X7RFVWWS	Tape & Reel
0.22 μ F	50	$\pm 10\%$	X7R	A41C224K	A224K29X7RFVWWT	Tape & Reel
0.22 μ F	50	$\pm 20\%$	X7R	A41C224M	A224M29X7RFVWWT	Tape & Reel
220 pF	100	$\pm 10\%$	X7R	A41A221K	A221K15X7RHVVWA	Tape & Reel
220 pF	100	$\pm 20\%$	X7R	A41A221M	A221M15X7RHVVWA	Tape & Reel
270 pF	100	$\pm 10\%$	X7R	A41A271K	A271K15X7RHVVWA	Tape & Reel
270 pF	100	$\pm 20\%$	X7R	A41A271M	A271M15X7RHVVWA	Tape & Reel
330 pF	100	$\pm 10\%$	X7R	A41A331K	A331K15X7RHVVWA	Tape & Reel
330 pF	100	$\pm 20\%$	X7R	A41A331M	A331M15X7RHVVWA	Tape & Reel
390 pF	100	$\pm 10\%$	X7R	A41A391K	A391K15X7RHVVWA	Tape & Reel
390 pF	100	$\pm 20\%$	X7R	A41A391M	A391M15X7RHVVWA	Tape & Reel
470 pF	100	$\pm 10\%$	X7R	A41A471K	A471K15X7RHVVWA	Tape & Reel
470 pF	100	$\pm 20\%$	X7R	A41A471M	A471M15X7RHVVWA	Tape & Reel
560 pF	100	$\pm 10\%$	X7R	A41A561K	A561K15X7RHVVWA	Tape & Reel
560 pF	100	$\pm 20\%$	X7R	A41A471M	A561M15X7RHVVWA	Tape & Reel
680 pF	100	$\pm 10\%$	X7R	A41A681K	A681K15X7RHVVWA	Tape & Reel
680 pF	100	$\pm 20\%$	X7R	A41A681M	A681M15X7RHVVWA	Tape & Reel
820 pF	100	$\pm 10\%$	X7R	A41A821K	A821K15X7RHVVWA	Tape & Reel
820 pF	100	$\pm 20\%$	X7R	A41A821M	A821M15X7RHVVWA	Tape & Reel
1000 pF	100	$\pm 10\%$	X7R	A41A102K	A102K15X7RHVVWA	Tape & Reel
1000 pF	100	$\pm 20\%$	X7R	A41A102M	A102M15X7RHVVWA	Tape & Reel
1200 pF	100	$\pm 10\%$	X7R	A41A122K	A122K15X7RHVVWA	Tape & Reel
1200 pF	100	$\pm 20\%$	X7R	A41A122M	A122M15X7RHVVWA	Tape & Reel
1500 pF	100	$\pm 10\%$	X7R	A41A152K	A152K15X7RHVVWA	Tape & Reel
1500 pF	100	$\pm 20\%$	X7R	A41A152M	A152M15X7RHVVWA	Tape & Reel
1800 pF	100	$\pm 10\%$	X7R	A41A182K	A182K15X7RHVVWA	Tape & Reel
1800 pF	100	$\pm 20\%$	X7R	A41A182M	A182M15X7RHVVWA	Tape & Reel
2200 pF	100	$\pm 10\%$	X7R	A41A222K	A222K15X7RHVVWA	Tape & Reel
2200 pF	100	$\pm 20\%$	X7R	A41A222M	A222M15X7RHVVWA	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
2700 pF	100	±10%	X7R	A41A272K	A272K15X7RHVVWA	Tape & Reel
2700 pF	100	±20%	X7R	A41A272M	A272M15X7RHVVWA	Tape & Reel
3300 pF	100	±10%	X7R	A41A332K	A332K15X7RHVVWA	Tape & Reel
3300 pF	100	±20%	X7R	A41A332M	A332M15X7RHVVWA	Tape & Reel
3900 pF	100	±10%	X7R	A41A392K	A392K15X7RHVVWA	Tape & Reel
3900 pF	100	±20%	X7R	A41A392M	A392M15X7RHVVWA	Tape & Reel
4700 pF	100	±10%	X7R	A41A472K	A472K15X7RHVVWA	Tape & Reel
4700 pF	100	±20%	X7R	A41A472M	A472M15X7RHVVWA	Tape & Reel
5600 pF	100	±10%	X7R	A41A562K	A562K15X7RHVVWA	Tape & Reel
5600 pF	100	±20%	X7R	A41A562M	A562M15X7RHVVWA	Tape & Reel
6800 pF	100	±10%	X7R	A41A682K	A682K15X7RHVVWA	Tape & Reel
6800 pF	100	±20%	X7R	A41A682M	A682M15X7RHVVWA	Tape & Reel
8200 pF	100	±10%	X7R	A41A822K	A822K15X7RHVVWA	Tape & Reel
8200 pF	100	±20%	X7R	A41A822M	A822M15X7RHVVWA	Tape & Reel
0.01 µF	100	±10%	X7R	A41A103K	A103K15X7RHVVWA	Tape & Reel
0.01 µF	100	±20%	X7R	A41A103M	A103M15X7RHVVWA	Tape & Reel
0.012 µF	100	±10%	X7R	A41A123K	A123K20X7RHVVWB	Tape & Reel
0.012 µF	100	±20%	X7R	A41A123M	A123M20X7RHVVWB	Tape & Reel
0.015 µF	100	±10%	X7R	A41A153K	A153K20X7RHVVWC	Tape & Reel
0.015 µF	100	±20%	X7R	A41A153M	A153M20X7RHVVWC	Tape & Reel
0.018 µF	100	±10%	X7R	A41A183K	A183K20X7RHVVWD	Tape & Reel
0.018 µF	100	±20%	X7R	A41A183M	A183M20X7RHVVWD	Tape & Reel
0.022 µF	100	±10%	X7R	A41A223K	A223K20X7RHVVWE	Tape & Reel
0.022 µF	100	±20%	X7R	A41A223M	A223M20X7RHVVWE	Tape & Reel
0.027 µF	100	±10%	X7R	A41A273K	A273K20X7RHVVWF	Tape & Reel
0.027 µF	100	±20%	X7R	A41A273M	A273M20X7RHVVWF	Tape & Reel
0.033 µF	100	±10%	X7R	A41A333K	A333K20X7RHVVWG	Tape & Reel
0.033 µF	100	±20%	X7R	A41A333M	A333M20X7RHVVWG	Tape & Reel
0.039 µF	100	±10%	X7R	A41A393K	A393K20X7RHVVWH	Tape & Reel
0.039 µF	100	±20%	X7R	A41A393M	A393M20X7RHVVWH	Tape & Reel
0.047 µF	100	±10%	X7R	A41A473K	A473K20X7RHVVWJ	Tape & Reel
0.047 µF	100	±20%	X7R	A41A473M	A473M20X7RHVVWJ	Tape & Reel
0.056 µF	100	±10%	X7R	A41A563K	A563K29X7RHVVWK	Tape & Reel
0.056 µF	100	±20%	X7R	A41A563M	A563M29X7RHVVWK	Tape & Reel
0.068 µF	100	±10%	X7R	A41A683K	A683K29X7RHVVWL	Tape & Reel
0.068 µF	100	±20%	X7R	A41A683M	A683M29X7RHVVWL	Tape & Reel
0.082 µF	100	±10%	X7R	A41A823K	A823K29X7RHVVWM	Tape & Reel
0.082 µF	100	±20%	X7R	A41A823M	A823M29X7RHVVWM	Tape & Reel
0.1 µF	100	±10%	X7R	A41A1043K	A104K29X7RHVVWN	Tape & Reel
0.1 µF	100	±20%	X7R	A41A104M	A104M29X7RHVVWN	Tape & Reel

Mono-Axial Conformal Coated Ceramic Capacitors

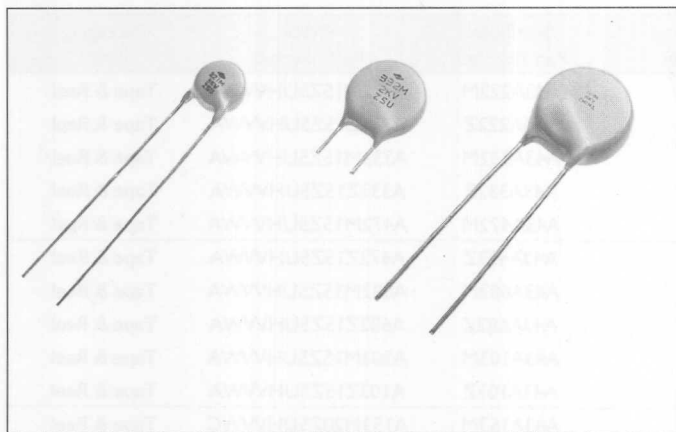
Dielectric: Z5U

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
1000 pF	50	± 20%	Z5U	A43C102M	A102M15Z5UFVWWA	Tape & Reel
1000 pF	50	+ 80% / - 20%	Z5U	A43C102Z	A102Z15Z5UFVWWA	Tape & Reel
1200 pF	50	± 20%	Z5U	A43C122M	A122M15Z5UFVWWA	Tape & Reel
1200 pF	50	+ 80% / - 20%	Z5U	A43C122Z	A122Z15Z5UFVWWA	Tape & Reel
1500 pF	50	± 20%	Z5U	A43C152M	A152M15Z5UFVWWA	Tape & Reel
1500 pF	50	+ 80% / - 20%	Z5U	A43C152Z	A152Z15Z5UFVWWA	Tape & Reel
1800 pF	50	± 20%	Z5U	A43C182M	A182M15Z5UFVWWA	Tape & Reel
1800 pF	50	+ 80% / - 20%	Z5U	A43C182Z	A182Z15Z5UFVWWA	Tape & Reel
2200 pF	50	± 20%	Z5U	A43C222M	A222M15Z5UFVWWA	Tape & Reel
2200 pF	50	+ 80% / - 20%	Z5U	A43C222Z	A222Z15Z5UFVWWA	Tape & Reel
2700 pF	50	± 20%	Z5U	A43C272M	A272M15Z5UFVWWA	Tape & Reel
2700 pF	50	+ 80% / - 20%	Z5U	A43C272Z	A272Z15Z5UFVWWA	Tape & Reel
3300 pF	50	± 20%	Z5U	A43C332M	A332M15Z5UFVWWA	Tape & Reel
3300 pF	50	+ 80% / - 20%	Z5U	A43C332Z	A332Z15Z5UFVWWA	Tape & Reel
3900 pF	50	± 20%	Z5U	A43C392M	A392M15Z5UFVWWA	Tape & Reel
3900 pF	50	+ 80% / - 20%	Z5U	A43C392Z	A392Z15Z5UFVWWA	Tape & Reel
4700 pF	50	± 20%	Z5U	A43C472M	A472M15Z5UFVWWA	Tape & Reel
4700 pF	50	+ 80% / - 20%	Z5U	A43C472Z	A472Z15Z5UFVWWA	Tape & Reel
5600 pF	50	± 20%	Z5U	A43C562M	A562M15Z5UFVWWA	Tape & Reel
5600 pF	50	+ 80% / - 20%	Z5U	A43C562Z	A562Z15Z5UFVWWA	Tape & Reel
6800 pF	50	± 20%	Z5U	A43C682M	A682M15Z5UFVWWA	Tape & Reel
6800 pF	50	+ 80% / - 20%	Z5U	A43C682Z	A682Z15Z5UFVWWA	Tape & Reel
8200 pF	50	± 20%	Z5U	A43C822M	A822M15Z5UFVWWA	Tape & Reel
8200 pF	50	+ 80% / - 20%	Z5U	A43C822Z	A822Z15Z5UFVWWA	Tape & Reel
0.01 µF	50	± 20%	Z5U	A43C103M	A103M15Z5UFVWWA	Tape & Reel
0.01 µF	50	+ 80% / - 20%	Z5U	A43C103Z	A103Z15Z5UFVWWA	Tape & Reel
0.15 µF	50	± 20%	Z5U	A43C153M	A153M15Z5UFVWWC	Tape & Reel
0.15 µF	50	+ 80% / - 20%	Z5U	A43C153Z	A153Z15Z5UFVWWC	Tape & Reel
0.022 µF	50	± 20%	Z5U	A43C223M	A223M15Z5UFVWWE	Tape & Reel
0.022 µF	50	+ 80% / - 20%	Z5U	A43C223Z	A223Z15Z5UFVWWE	Tape & Reel
0.033 µF	50	± 20%	Z5U	A43C333M	A333M15Z5UFVWWG	Tape & Reel
0.033 µF	50	+ 80% / - 20%	Z5U	A43C333Z	A333Z15Z5UFVWWG	Tape & Reel
0.047 µF	50	± 20%	Z5U	A43C473M	A473M15Z5UFVWWJ	Tape & Reel
0.047 µF	50	+ 80% / - 20%	Z5U	A43C473Z	A473Z15Z5UFVWWJ	Tape & Reel
0.68 µF	50	± 20%	Z5U	A43C683M	A683M15Z5UFVWWL	Tape & Reel
0.68 µF	50	+ 80% / - 20%	Z5U	A43C683Z	A683Z15Z5UFVWWL	Tape & Reel
0.1 µF	50	± 20%	Z5U	A43C104M	A104M15Z5UFVWWN	Tape & Reel
0.1 µF	50	+ 80% / - 20%	Z5U	A43C104Z	A104Z15Z5UFVWWN	Tape & Reel
0.15 µF	50	± 20%	Z5U	A43C154M	A154M20Z5UFVWWR	Tape & Reel
0.15 µF	50	+ 80% / - 20%	Z5U	A43C154Z	A154Z20Z5UFVWWR	Tape & Reel
0.22 µF	50	± 20%	Z5U	A43C224M	A224M20Z5UFVWWT	Tape & Reel
0.22 µF	50	+ 80% / - 20%	Z5U	A43C224Z	A224Z20Z5UFVWWT	Tape & Reel
0.33 µF	50	± 20%	Z5U	A43C334M	A334M29Z5UFVWWW	Tape & Reel
0.33 µF	50	+ 80% / - 20%	Z5U	A43C334Z	A334Z29Z5UFVWWW	Tape & Reel
0.47 µF	50	± 20%	Z5U	A43C474M	A474M29Z5UFVWWWY	Tape & Reel
0.47 µF	50	+ 80% / - 20%	Z5U	A43C474Z	A474Z29Z5UFVWWWY	Tape & Reel
1000 pF	100	± 20%	Z5U	A43A102M	A102M15Z5UHVVWA	Tape & Reel
1000 pF	100	+ 80% / - 20%	Z5U	A43A102Z	A102Z15Z5UHVVWA	Tape & Reel
1500 pF	100	± 20%	Z5U	A43A152M	A152M15Z5UHVVWA	Tape & Reel
1500 pF	100	+ 80% / - 20%	Z5U	A43A152Z	A152Z15Z5UHVVWA	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Distributor Part Number	Philips Part Number	Packaging Type
2200 pF	100	± 20%	Z5U	A43A222M	A222M15Z5UHVWWA	Tape & Reel
2200 pF	100	+ 80%/- 20%	Z5U	A43A222Z	A222Z15Z5UHVWWA	Tape & Reel
3300 pF	100	± 20%	Z5U	A43A332M	A332M15Z5UHVWWA	Tape & Reel
3300 pF	100	+ 80%/- 20%	Z5U	A43A332Z	A332Z15Z5UHVWWA	Tape & Reel
4700 pF	100	± 20%	Z5U	A43A472M	A472M15Z5UHVWWA	Tape & Reel
4700 pF	100	+ 80%/- 20%	Z5U	A43A472Z	A472Z15Z5UHVWWA	Tape & Reel
6800 pF	100	± 20%	Z5U	A43A682M	A682M15Z5UHVWWA	Tape & Reel
6800 pF	100	+ 80%/- 20%	Z5U	A43A682Z	A682Z15Z5UHVWWA	Tape & Reel
0.01 µF	100	± 20%	Z5U	A43A103M	A103M15Z5UHVWWA	Tape & Reel
0.01 µF	100	+ 80%/- 20%	Z5U	A43A103Z	A103Z15Z5UHVWWA	Tape & Reel
0.15 µF	100	± 20%	Z5U	A43A153M	A153M20Z5UHVWWC	Tape & Reel
0.15 µF	100	+ 80%/- 20%	Z5U	A43A153Z	A153Z20Z5UHVWWC	Tape & Reel
0.022 µF	100	± 20%	Z5U	A43A223M	A223M20Z5UHVWWE	Tape & Reel
0.022 µF	100	+ 80%/- 20%	Z5U	A43A223Z	A223Z20Z5UHVWWE	Tape & Reel
0.033 µF	100	± 20%	Z5U	A43A333M	A333M20Z5UHVWWG	Tape & Reel
0.033 µF	100	+ 80%/- 20%	Z5U	A43A333Z	A333Z20Z5UHVWWG	Tape & Reel
0.047 µF	100	± 20%	Z5U	A43A473M	A473M29Z5UHVWWJ	Tape & Reel
0.047 µF	100	+ 80%/- 20%	Z5U	A43A473Z	A473Z29Z5UHVWWJ	Tape & Reel
0.68 µF	100	± 20%	Z5U	A43A683M	A683M29Z5UHVWWL	Tape & Reel
0.68 µF	100	+ 80%/- 20%	Z5U	A43A683Z	A683Z29Z5UHVWWL	Tape & Reel
0.1 µF	100	± 20%	Z5U	A43A104M	A104M29Z5UHVWWN	Tape & Reel
0.1 µF	100	+ 80%/- 20%	Z5U	A43A104Z	A104Z29Z5UHVWWN	Tape & Reel



General Purpose Ceramic Disc Capacitors

Features

- Single Layer Construction
- General Purpose and Temperature Compensating Capacitors Available
- High Voltages Available

Part Number

- See Table 1

Marking

- See Figure 7

Packaging

- Available Bulk, Tape & Reel & Ammo Pack

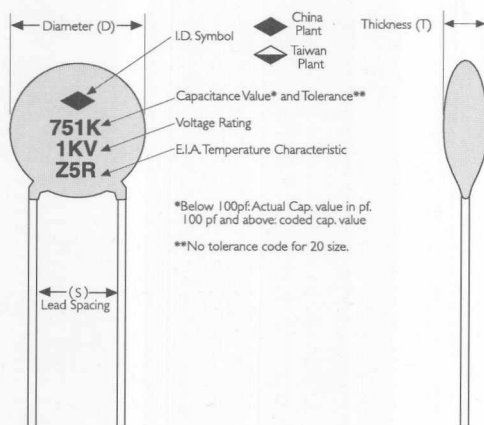
Lead Material Available

- 100% Copper, solder coated

Encapsulation

- 50VDC through 2KVDC, Phenolic Resin Coated
- 3KVDC and Higher, Epoxy Coated

Figure 7 Marking



Note(s):

- Standard Lead Space (L/S) for size codes: 20-47* 0.250"; available on T&R or ammo 59 and larger 0.375"; bulk only
- T&R or ammo provided 2,000 pc/Reel, 10,000 pc minimum, NCNR
- 33 & 43 size codes available in bulk only

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A..

Electrical Parameters

Capacitance Range:	0.47 pF through 0.1 μ F
Working Voltage DC:	50, 100, 500 & 1000, 2000, 3000 & 6000VDC
Materials Available:	C0H, C0K, C0G, S2L, S3N, X5F, Y5P, Z5F, Z5U

Standard Disc Capacitor Lead Styles

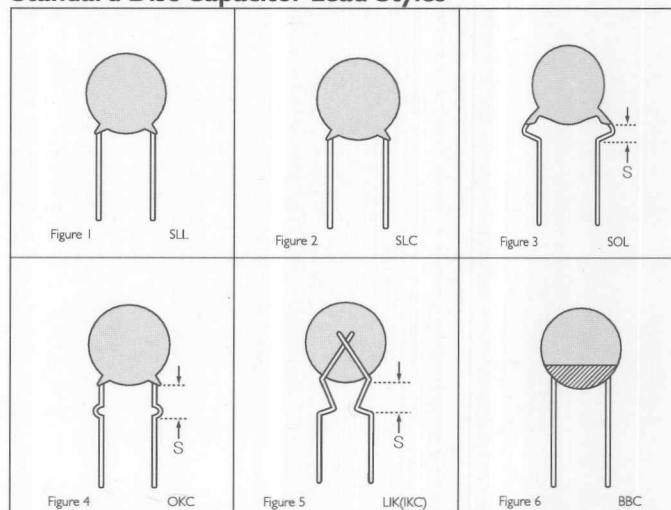


Figure Form Definition

- 1 SLL Straight Lead, 0.125" max. rundown, no exposed ceramic
- 2 SLC Straight Lead, controlled rundown, 0.031" max. rundown. 0.010" max. exposed ceramic.
- 3 SOL Stand Off Lead, S = 3.0mm max.
- 4 OKC Outside Kink } S = 4.75mm max.
- 5 LIK(IKC) Inside Kink }
- 6 BBC Bare Body Construction, bulk only, 0.093" max. exposed disc body.

Table 1 Part Number

Series D and S

D	102	K	29	Z5F	N	AA	EM																																																																	
D Disc product line	Capacitance Value (PF) First 2 digits are significant, third digit is a multiplier as follows 0 x 1 1 x 10 2 x 100 3 x 1000 4 x 10000 5 x 100000	Tolerance Code C ±0.25 pF D ±0.5 pF F ±1 pF J ±5% K ±10% M ±20% P +100/–0% Z +80/–20%			Voltage Code F 50VDC H 100VDC L 500VDC N 1KVDC P 2KVDC R 3KVDC U 6KVDC		Test Code Class I Dielectric Strength Code Tested @ AA 1500VDC AB 2 x Rated VDC AC 3 x Rated VDC AL 2 x Rated VDC AN 1300 VDC Class II & III Dielectric Strength Code Tested @ EC 1500 VDC ED 1500 VDC EM 2 x Rated VDC EP 1300 VDC EU 3 x Rated VDC																																																																	
Size Code <table><tr><th>Case Size</th><th>Maximum diameter</th><th>Maximum thickness</th></tr><tr><td></td><td>Inches (mm)</td><td>Inches (mm)</td></tr><tr><td>20</td><td>0.197 (5.00)</td><td>0.157 (3.99)</td></tr><tr><td>25</td><td>0.256 (6.50)</td><td>0.157 (3.99)</td></tr><tr><td>29</td><td>0.290 (7.37)</td><td>0.157 (3.99)</td></tr><tr><td>31</td><td>0.310 (7.87)</td><td>0.157 (3.99)</td></tr><tr><td>33</td><td>0.330 (8.83)</td><td>0.236 (5.99)</td></tr><tr><td>35</td><td>0.350 (8.89)</td><td>0.236 (5.99)</td></tr><tr><td>39</td><td>0.394 (10.01)</td><td>0.157 (3.99)</td></tr><tr><td>43</td><td>0.430 (10.92)</td><td>0.236 (5.99)</td></tr><tr><td>47</td><td>0.472 (11.99)</td><td>0.157 (3.99)</td></tr><tr><td>52</td><td>0.520 (13.21)</td><td>0.236 (5.99)</td></tr><tr><td>59</td><td>0.590 (14.99)</td><td>0.157 (3.99)</td></tr><tr><td>63</td><td>0.630 (16.00)</td><td>0.236 (5.99)</td></tr><tr><td>66</td><td>0.660 (16.76)</td><td>0.313 (7.95)</td></tr><tr><td>73</td><td>0.730 (18.54)</td><td>0.236 (5.99)</td></tr><tr><td>75</td><td>0.750 (19.05)</td><td>0.177 (4.50)</td></tr><tr><td>76</td><td>0.760 (19.30)</td><td>0.313 (7.95)</td></tr><tr><td>79</td><td>0.790 (20.07)</td><td>0.236 (5.99)</td></tr><tr><td>84</td><td>0.840 (21.34)</td><td>0.177 (4.50)</td></tr><tr><td>93</td><td>0.930 (23.62)</td><td>0.177 (4.50)</td></tr><tr><td>96</td><td>0.960 (24.38)</td><td>0.313 (7.95)</td></tr></table>				Case Size	Maximum diameter	Maximum thickness		Inches (mm)	Inches (mm)	20	0.197 (5.00)	0.157 (3.99)	25	0.256 (6.50)	0.157 (3.99)	29	0.290 (7.37)	0.157 (3.99)	31	0.310 (7.87)	0.157 (3.99)	33	0.330 (8.83)	0.236 (5.99)	35	0.350 (8.89)	0.236 (5.99)	39	0.394 (10.01)	0.157 (3.99)	43	0.430 (10.92)	0.236 (5.99)	47	0.472 (11.99)	0.157 (3.99)	52	0.520 (13.21)	0.236 (5.99)	59	0.590 (14.99)	0.157 (3.99)	63	0.630 (16.00)	0.236 (5.99)	66	0.660 (16.76)	0.313 (7.95)	73	0.730 (18.54)	0.236 (5.99)	75	0.750 (19.05)	0.177 (4.50)	76	0.760 (19.30)	0.313 (7.95)	79	0.790 (20.07)	0.236 (5.99)	84	0.840 (21.34)	0.177 (4.50)	93	0.930 (23.62)	0.177 (4.50)	96	0.960 (24.38)	0.313 (7.95)	Temperature Characteristics Class I First 2 Digits C0 C0G U1 N080 P2 N150 R2 N220 S2 N330 T2 N470 U2 N750 P3 N1500 R3 N2200 S3 N3300 Class II & III First Digit is Lower Temp X –55°C Y –30°C Z +10°C Second Digit is Upper Temp 5 +85°C 6 +105°C 7 +125°C 8 +150°C Third Digit is Percent Change Allowed* F ±7.5% P ±10% R ±15% S ±22% T +22/–33% U +22/–56% V +22/–82% *Changes in Capacitance are all using the 25C Capacitance Value as Reference Point		
Case Size	Maximum diameter	Maximum thickness																																																																						
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Ceramic Disc Capacitor Distributor Part Number

General Purpose

Series	Volt	Note	Coded Capacitance
CK	50V	Z5V TC	
DC	100V	Z5V TC	
CE	500V	X5F TC	
CF	500V	Z5P TC	
DD	1000V	Various TC	
GAP	Special	See Catalog for Detail	

Temperature Compensating

Series	Volt	Note	Coded Capacitance
DTZ	500V	NPO TC	

High Voltage Capacitors

Series	Volt	Capacitance (pF)
DD30	3000V	
DD60	6000V	

102 = 1,000 pF
i.e. the third digit signifies the number of zeros

Mechanical & Packaging Code

Code	Lead Space	Lead Dia.	Lead Length	Form	Pack
AA	.250"	#22	1.00* min.	SLL	Bulk
AB	.375"	#22	1.00* min.	SLL	Bulk
BE	.250"	#22	.187 +.031/- .016*	SLC	Bulk
BF	.375"	#22	.187 +.031/- .016*	SLC	Bulk
CE	.250"	#22	.187 +.031/- .016*	BBC	Bulk
CF	.375"	#22	.187 +.031/- .016*	BBC	Bulk
EA	.250"	#22	.100* min.	SOL	Bulk
EB	.375"	#22	.100* min.	SOL	Bulk
FE	.250"	#22	.187 +.031/- .016*	IKC	Bulk
FF	.375"	#22	.187 +.031/- .016*	IKC	Bulk
GE	.250"	#22	.187 +.031/- .016*	OKC	Bulk
GF	.375"	#22	.187 +.031/- .016*	OKC	Bulk
MA	.200"	#22	.100* min.	SLL	Bulk
TE	.250"	#22	H = 16mm min.	SLC	Tape & Reel
TF	.250"	#22	Ho = 16 \pm 0.5mm	IKC	Tape & Reel
TH	.200"	#22	Ho = 16 \pm 0.5mm	IKC	Tape & Reel
TK	.200"	#22	Ho = 16 \pm 0.5mm	SOL	Tape & Reel
TM	.200"	#22	H = 16mm min.	SLC	Tape & Reel

Note: All 6Kvdc discs use #20 avg. lead dia.

Conversion Factors:
1 inch = 25.4001 mm
1mm = .03937 inch

Ceramic Disc Capacitors

General Purpose

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
5,000 pF	50	+80%/-20%	Z5V	0.250"	CK502	D502Z20Z5VFAAEU	Bulk
0.01 µF	50	+80%/-20%	Z5V	0.250"	CK103	D103Z25Z5VFAAEU	Bulk
0.02 µF	50	+80%/-20%	Z5V	0.375"	CK203	D203Z29Z5VFABEU	Bulk
0.025 µF	50	+80%/-20%	Z5V	0.375"	CK253	D253Z31Z5VFABEU	Bulk
0.03 µF	50	+80%/-20%	Z5V	0.250"	CK303	D303Z59Z5VFABEU	Bulk
0.05 µF	50	+80%/-20%	Z5V	0.375"	CK503	D503Z39Z5VFABEU	Bulk
0.1 µF	50	+80%/-20%	Z5V	0.375"	CK104	D104Z69Z5VFAZAA	Bulk
5,000 pF	100	±20%	Z5V	0.250"	DC502	D502M25Z5VHAAEU	Bulk
0.01 µF	100	±20%	Z5V	0.250"	DC103	D103M31Z5VHAAEU	Bulk
0.02 µF	100	±20%	Z5V	0.375"	DC203	D203M47Z5VHABEU	Bulk
0.025 µF	100	±20%	Z5V	0.375"	DC253	D253M47Z5VHABEU	Bulk
0.05 µF	100	±20%	Z5V	0.375"	DC503	D503M69Z5VHABEU	Bulk
0.1 µF	100	±20%	Z5V	0.375"	DC104	S104M69Z5VHAZAA	Bulk
1.5 pF	500	±.5 pF	C0K	0.250"	DTZ1R5	D159D20C0KLAAAA	Bulk
2.2 pF	500	±.5 pF	C0K	0.250"	DTZ2R2	D229D20C0KLAAAA	Bulk
3.3 pF	500	±.5 pF	C0J	0.250"	DTZ3R3	D339D20C0JLAAAA	Bulk
4.7 pF	500	±.5 pF	C0J	0.250"	DTZ4R7	D479D20C0JLAAAA	Bulk
6.8 pF	500	±.5 pF	C0H	0.250"	DTZ6R8	D689D20C0HLAAAA	Bulk
10 pF	500	±5%	C0G	0.250"	DTZ10	D100J20C0GLAAAA	Bulk
15 pF	500	±5%	C0G	0.250"	DTZ15	D150J20C0GLAAAA	Bulk
18 pF	500	±5%	C0G	0.250"	DTZ18	D180J20C0GLAAAA	Bulk
20 pF	500	±5%	C0G	0.250"	DTZ20	D200J25C0GLAAAA	Bulk
22 pF	500	±5%	C0G	0.250"	DTZ22	D220J25C0GLAAAA	Bulk
25 pF	500	±5%	C0G	0.250"	DTZ25	D250J25C0GLAAAA	Bulk
27 pF	500	±5%	C0G	0.250"	DTZ27	D270J25C0GLAAAA	Bulk
33 pF	500	±5%	C0G	0.250"	DTZ33	D330J25C0GLAAAA	Bulk
47 pF	500	±5%	C0G	0.250"	DTZ47	D470J29C0GLAAAA	Bulk
56 pF	500	±5%	C0G	0.250"	DTZ56	D560J31C0GLAAAA	Bulk
68 pF	500	±5%	C0G	0.250"	DTZ68	D680J39C0GLAAAA	Bulk
75 pF	500	±5%	C0G	0.375"	DTZ75	D750J39C0GLABAA	Bulk
82 pF	500	±5%	C0G	0.375"	DTZ82	D820J39C0GLABAA	Bulk
100 pF	500	±5%	C0G	0.375"	DTZ100	D101J39C0GLABAA	Bulk
120 pF	500	±5%	C0G	0.375"	DTZ120	D121J47C0GLABAA	Bulk
150 pF	500	±5%	C0G	0.375"	DTZ150	D151J47C0GLABAA	Bulk
200 pF	500	±5%	C0G	0.375"	DTZ200	D201J59C0GLABAA	Bulk
220 pF	500	±5%	C0G	0.375"	DTZ220	D221J59C0GLABAA	Bulk
150 pF	500	±10%	X5F	0.250"	CE151	D151K20X5FLAAEC	Bulk
220 pF	500	±10%	X5F	0.250"	CE221	D221K20X5FLAAEC	Bulk
330 pF	500	±10%	X5F	0.250"	CE331	D331K20X5FLAAEC	Bulk
470 pF	500	±10%	X5F	0.250"	CE471	D471K25X5FLAAEC	Bulk
500 pF	500	±10%	X5F	0.250"	CE501	D501K25X5FLAAEC	Bulk
560 pF	500	±10%	X5F	0.250"	CE561	D561K25X5FLAAEA	Bulk
680 pF	500	±10%	X5F	0.250"	CE681	D681K25X5FLAAEA	Bulk
750 pF	500	±10%	X5F	0.250"	CE751	D751K25X5FLAAEA	Bulk
800 pF	500	±10%	X5F	0.250"	CE801	D801K25X5FLAAEC	Bulk
820 pF	500	±10%	X5F	0.250"	CE821	D821K29X5FLAAEC	Bulk
1000 pF	500	±10%	X5F	0.250"	CE102	D102K29X5FLAAEC	Bulk
1200 pF	500	±10%	X5F	0.250"	CE122	D122K31X5FLAAEC	Bulk
1500 pF	500	±10%	X5F	0.250"	CE152	D152K39X5FLAAEC	Bulk
1800 pF	500	±10%	X5F	0.250"	CE182	D182K39X5FLAAEC	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
2000 pF	500	±10%	X5F	0.250"	CE202	D202K39X5FLAAEC	Bulk
2200 pF	500	±10%	X5F	0.250"	CE222	D222K39X5FLAAEC	Bulk
3300 pF	500	±10%	X5F	0.375"	CE332	D332K47X5FLABEC	Bulk
3900 pF	500	±10%	X5F	0.375"	CE392	D392K59X5FLABEC	Bulk
4700 pF	500	±10%	X5F	0.375"	CE472	D472K59X5FLABEC	Bulk
5000 pF	500	±10%	X5F	0.375"	CE502	D502K59X5FLABED	Bulk
6200 pF	500	±10%	X5F	0.375"	CE622	D622K69X5FLABED	Bulk
8200 pF	500	±10%	X5F	0.375"	CE822	D822K75X5FLABEC	Bulk
0.01 µF	500	±10%	X5F	0.375"	CE103	D103K84X5FLABEA	Bulk
0.01 µF	500	+100/-0%	Z5U	0.375"	DD6103	D103P59Z5ULABED	Bulk
0.015 µF	500	+80%/-20%	Z5U	0.375"	DD153	D153Z59Z5ULABED	Bulk
0.02 µF	500	+80%/-20%	Z5U	0.375"	DD203	D203Z59Z5ULABED	Bulk
0.03 µF	500	+80%/-20%	Z5U	0.375"	DD303	D303Z69Z5ULAZAA	Bulk
0.04 µF	500	+80%/-20%	Z5U	0.375"	DD403	D403Z84Z5ULAZAA	Bulk
0.05 µF	500	+80%/-20%	Z5U	0.375"	DD503	D503Z93Z5ULAZAA	Bulk
0.1 µF	500	+80%/-20%	Z5V	0.375"	DD104	S104Z93Z5VLAZAA	Bulk
3.3 pF	1000	±10%	S2L	0.250"	DD3R3	D339K20S2LNAAAL	Bulk
5.0 pF	1000	±10%	S2L	0.250"	DD050	D509K20S2LNAAAL	Bulk
6.0 pF	1000	±10%	S2L	0.250"	DD060	D609K20S2LNAAAL	Bulk
6.8 pF	1000	±10%	S2L	0.250"	DD6R8	D689K20S2LNAAAL	Bulk
7.0 pF	1000	±10%	S2L	0.250"	DD070	D709K20S2LNAAAL	Bulk
8.0 pF	1000	±10%	S2L	0.250"	DD080	D809K25S2LNAAAL	Bulk
10 pF	1000	±10%	S2L	0.250"	DD100	D100K25S2LNAAAL	Bulk
12 pF	1000	±10%	S2L	0.250"	DD120	D120K25S2LNAAAL	Bulk
15 pF	1000	±10%	S2L	0.250"	DD150	D150K25S2LNAAAL	Bulk
18 pF	1000	±10%	S2L	0.250"	DD180	D180K29S2LNAAAL	Bulk
20 pF	1000	±10%	S2L	0.250"	DD200	D200K29S2LNAAAL	Bulk
22 pF	1000	±10%	S2L	0.250"	DD220	D220K29S2LNAAAL	Bulk
24 pF	1000	±10%	S2L	0.250"	DD240	D240K29S2LNAAAL	Bulk
25 pF	1000	±10%	S2L	0.250"	DD250	D250K29S2LNAAAL	Bulk
27 pF	1000	±10%	S2L	0.250"	DD270	D270K31S2LNAAAL	Bulk
30 pF	1000	±10%	S2L	0.250"	DD300	D300K31S2LNAAAL	Bulk
33 pF	1000	±10%	S2L	0.250"	DD330	D330K39S2LNAAAL	Bulk
39 pF	1000	±10%	S2L	0.250"	DD390	D390K39S2LNAAAL	Bulk
47 pF	1000	±10%	S2L	0.250"	DD470	D470K39S2LNAAAL	Bulk
50 pF	1000	±10%	S3N	0.250"	DD500	D500K25S3NNAAAL	Bulk
51 pF	1000	±10%	S3N	0.250"	DD510	D510K25S3NNAAAL	Bulk
56 pF	1000	±10%	S3N	0.250"	DD560	D560K25S3NNAAAL	Bulk
68 pF	1000	±10%	S3N	0.250"	DD680	D680K25S3NNAAAL	Bulk
75 pF	1000	±10%	S3N	0.250"	DD750	D750K25S3NNAAAL	Bulk
82 pF	1000	±10%	S3N	0.250"	DD820	D820K25S3NNAAAL	Bulk
91 pF	1000	±10%	S3N	0.250"	DD910	D910K29S3NNAAAL	Bulk
100 pF	1000	±10%	S3N	0.250"	DD101	D101K29S3NNAAAL	Bulk
120 pF	1000	±10%	S3N	0.250"	DD121	D121K29S3NNAAAL	Bulk
130 pF	1000	±10%	S3N	0.250"	DD131	D131K31S3NNAAAL	Bulk
150 pF	1000	±10%	S3N	0.250"	DD151	D151K31S3NNAAAL	Bulk
180 pF	1000	±10%	S3N	0.250"	DD181	D181K39S3NNAAAL	Bulk
200 pF	1000	±10%	S3N	0.250"	DD201	D201K39S3NNAAAL	Bulk
220 pF	1000	±10%	Z5F	0.250"	DD221	D221K25Z5FNAAEM	Bulk
240 pF	1000	±10%	Z5F	0.250"	DD241	D241K25Z5FNAAEM	Bulk

Ceramic Disc Capacitors

General Purpose

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
250 pF	1000	±10%	Z5F	0.250"	DD251	D251K25Z5FNAAEM	Bulk
270 pF	1000	±10%	Z5F	0.250"	DD271	D271K25Z5FNAAEM	Bulk
300 pF	1000	±10%	Z5F	0.250"	DD301	D301K25Z5FNAAEM	Bulk
330 pF	1000	±10%	Z5F	0.250"	DD331	D331K25Z5FNAAEM	Bulk
350 pF	1000	±10%	Z5F	0.250"	DD351	D351K25Z5FNAAEM	Bulk
360 pF	1000	±10%	Z5F	0.250"	DD361	D361K25Z5FNAAEM	Bulk
390 pF	1000	±10%	Z5F	0.250"	DD391	D391K25Z5FNAAEM	Bulk
400 pF	1000	±10%	Z5F	0.250"	DD401	D401K25Z5FNAAEM	Bulk
470 pF	1000	±10%	Z5F	0.250"	DD471	D471K29Z5FNAAEM	Bulk
500 pF	1000	±10%	Z5F	0.250"	DD501	D501K29Z5FNAAEM	Bulk
510 pF	1000	±10%	Z5F	0.250"	DD511	D511K29Z5FNAAEM	Bulk
560 pF	1000	±10%	Z5F	0.250"	DD561	D561K31Z5FNAAEM	Bulk
600 pF	1000	±10%	Z5R	0.250"	DD601	D601K29Z5RNAAEM	Bulk
680 pF	1000	±10%	Z5R	0.250"	DD681	D681K29Z5RNAAEM	Bulk
750 pF	1000	±10%	Z5R	0.250"	DD751	D751K29Z5RNAAEM	Bulk
820 pF	1000	±10%	Z5F	0.250"	DD821	D821K39Z5FNAAEM	Bulk
910 pF	1000	±10%	Z5R	0.250"	DD911	D911K29Z5RNAAEM	Bulk
1000 pF	1000	±10%	Z5F	0.250"	DD102	D102K39Z5FNAAEM	Bulk
1000 pF	1000	+100%/-0%	Z5U	0.250"	DD102G	D102P25Z5UNAAEM	Bulk
1200 pF	1000	±10%	Z5R	0.250"	DD122	D122K39Z5RNAAEM	Bulk
1300 pF	1000	±10%	Z5R	0.250"	DD132	D132K39Z5RNAAEM	Bulk
1500 pF	1000	±10%	Z5R	0.250"	DD152	D152K39Z5RNAAEM	Bulk
1500 pF	1000	+100%/-0%	Z5U	0.250"	DD152G	D152P25Z5UNAAEM	Bulk
1600 pF	1000	±10%	Z5R	0.250"	DD162	D162K39Z5RNAAEM	Bulk
1800 pF	1000	±10%	Z5R	0.250"	DD182	D182K39Z5RNAAEM	Bulk
2000 pF	1000	±20%	Z5U	0.250"	DD202	D202M29Z5UNAAEM	Bulk
2200 pF	1000	±20%	Z5U	0.250"	DD222	D222M29Z5UNAAEM	Bulk
2500 pF	1000	±20%	Z5U	0.250"	DD252	D252M31Z5UNAAEM	Bulk
2700 pF	1000	±20%	Z5U	0.250"	DD272	D272M31Z5UNAAEM	Bulk
3000 pF	1000	±20%	Z5U	0.250"	DD302	D302M31Z5UNAAEM	Bulk
3300 pF	1000	±20%	Z5U	0.250"	DD332	D332M39Z5UNAAEM	Bulk
3900 pF	1000	±20%	Z5U	0.250"	DD392	D392M39Z5UNAAEM	Bulk
4000 pF	1000	±20%	Z5U	0.250"	DD402	D402M39Z5UNAAEM	Bulk
4300 pF	1000	±20%	Z5U	0.250"	DD432	D432M39Z5UNAAEM	Bulk
4700 pF	1000	±20%	Z5U	0.250"	DD472	D472M39Z5UNAAEM	Bulk
5000 pF	1000	±20%	Z5U	0.250"	DD5022	D502M39Z5UNAAEM	Bulk
5000 pF	1000	+100%/-0%	Z5U	0.375"	DD502	D502P47Z5UNABEM	Bulk
5600 pF	1000	±20%	Z5U	0.250"	DD562	D562M47Z5UNAAEM	Bulk
6800 pF	1000	±20%	Z5U	0.375"	DD682	D682M47Z5UNABEM	Bulk
7500 pF	1000	±20%	Z5U	0.375"	DD752	D752M47Z5UNABEM	Bulk
8200 pF	1000	±20%	Z5U	0.375"	DD822	D822M47Z5UNABEM	Bulk
0.01 µF	1000	±20%	Z5U	0.375"	DD1032	D103M59Z5UNABEM	Bulk
0.01 µF	1000	+100%/-0%	Z5U	0.375"	DD103	D103P69Z5UNABEM	Bulk
4.7 pF	3000	±20%	S2L	0.250"	DD304R7	D479M35S2LRAAAL	Bulk
10 pF	3000	±20%	S2L	0.250"	DD30100	D100M35S2LRAAAL	Bulk
15 pF	3000	±20%	S2L	0.250"	DD30150	D150M35S2LRAAAL	Bulk
22 pF	3000	±20%	S3N	0.250"	DD30220	D220M35S3NRRAAL	Bulk
30 pF	3000	±20%	S3N	0.250"	DD30300	D300M35S3NRRAAL	Bulk
33 pF	3000	±20%	S3N	0.250"	DD30330	D330M35S3NRRAAL	Bulk
47 pF	3000	±20%	S3N	0.250"	DD30470	D470M35S3NRRAAL	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

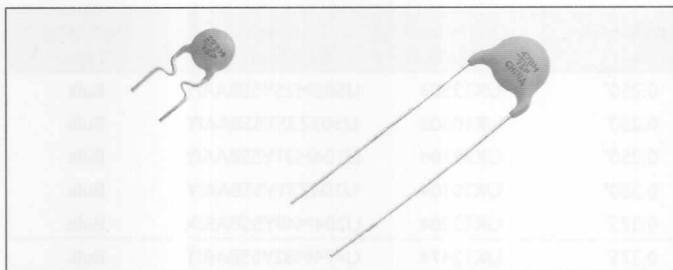
Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
50 pF	3000	±20%	S3N	0.250"	DD30500	D500M35S3NRAAAL	Bulk
68 pF	3000	±20%	S3N	0.250"	DD30680	D680M35S3NRAAAL	Bulk
82 pF	3000	±20%	S3N	0.250"	DD30820	D820M35S3NRAAAL	Bulk
100 pF	3000	±20%	Z5U	0.250"	DD30101	D101M35Z5URAAEM	Bulk
150 pF	3000	±20%	Z5U	0.250"	DD30151	D151M35Z5URAAEM	Bulk
200 pF	3000	±20%	Z5U	0.250"	DD30201	D201M35Z5URAAEM	Bulk
220 pF	3000	±20%	Z5U	0.250"	DD30221	D221M35Z5URAAEM	Bulk
250 pF	3000	±20%	Z5U	0.250"	DD30251	D251M35Z5URAAEM	Bulk
270 pF	3000	±20%	Z5U	0.250"	DD30271	D271M35Z5URAAEM	Bulk
300 pF	3000	±20%	Z5U	0.250"	DD30301	D301M35Z5URAAEM	Bulk
330 pF	3000	±20%	Z5U	0.250"	DD30331	D331M35Z5URAAEM	Bulk
390 pF	3000	±20%	Z5U	0.250"	DD30391	D391M35Z5URAAEM	Bulk
470 pF	3000	±20%	Z5U	0.250"	DD30471	D471M35Z5URAAEM	Bulk
500 pF	3000	±20%	Z5U	0.250"	DD30501	D501M35Z5URAAEM	Bulk
680 pF	3000	±20%	Z5U	0.250"	DD30681	D681M35Z5URAAEM	Bulk
750 pF	3000	±20%	Z5U	0.250"	DD30751	D751M35Z5URAAEM	Bulk
820 pF	3000	±20%	Z5U	0.250"	DD30821	D821M35Z5URAAEM	Bulk
1000 pF	3000	±20%	Z5U	0.250"	DD30102	D102M43Z5URAAEM	Bulk
1200 pF	3000	±20%	Z5U	0.250"	DD30122	D122M43Z5URAAEM	Bulk
1500 pF	3000	±20%	Z5U	0.375"	DD30152	D152M43Z5URABEM	Bulk
2000 pF	3000	±20%	Z5U	0.375"	DD30202	D202M52Z5URABEM	Bulk
2200 pF	3000	±20%	Z5U	0.375"	DD30222	D222M52Z5URABEM	Bulk
2700 pF	3000	±20%	Z5U	0.375"	DD30272	D272M52Z5URABEM	Bulk
3000 pF	3000	±20%	Z5U	0.375"	DD30302	D302M63Z5URABEM	Bulk
3300 pF	3000	±20%	Z5U	0.375"	DD30332	D332M63Z5URABEM	Bulk
3900 pF	3000	±20%	Z5U	0.375"	DD30392	D392M63Z5URABEM	Bulk
4700 pF	3000	±20%	Z5U	0.375"	DD30472	D472M73Z5URABEM	Bulk
5000 pF	3000	±20%	Z5U	0.375"	DD30502	D502M73Z5URABEM	Bulk
0.01 µF	3000	±20%	Z5U	0.375"	DD30103	D103M96Z5URABEM	Bulk
10 pF	6000	±20%	S2L	0.375"	DD60100	D100M62Z5LUABAL	Bulk
15 pF	6000	±20%	S2L	0.375"	DD60150	D150M66S2LUABAL	Bulk
30 pF	6000	±20%	S3N	0.375"	DD60300	D300M66S3NUABAL	Bulk
39 pF	6000	±20%	S3N	0.375"	DD60390	D390M66S3NUABAL	Bulk
47 pF	6000	±20%	S3N	0.375"	DD60470	D470M66S3NUABAL	Bulk
50 pF	6000	±20%	S3N	0.375"	DD60500	D500M66S3NUABAL	Bulk
75 pF	6000	±20%	S3N	0.375"	DD60750	D750M66S3NUABAL	Bulk
82 pF	6000	±20%	S3N	0.375"	DD60820	D820M66S3NUABAL	Bulk
100 pF	6000	±20%	S3N	0.375"	DD60101	D101M66S3NUABAA	Bulk
120 pF	6000	±20%	S3N	0.375"	DD60121	D121M66S3NUABAL	Bulk
150 pF	6000	±20%	Z5F	0.375"	DD60151	D151M66Z5FUABAL	Bulk
180 pF	6000	±20%	Z5U	0.375"	DD60181	D181M66Z5UUABEM	Bulk
200 pF	6000	±20%	Z5U	0.375"	DD60201	D201M66Z5UUABEM	Bulk
220 pF	6000	±20%	Z5U	0.375"	DD60221	D221M66Z5UUABEM	Bulk
250 pF	6000	±20%	Z5U	0.375"	DD60251	D251M66Z5UUABEM	Bulk
300 pF	6000	±20%	Z5U	0.375"	DD60301	D301M66Z5UUABEM	Bulk
390 pF	6000	±20%	Z5U	0.375"	DD60391	D391M66Z5UUABEM	Bulk
470 pF	6000	±20%	Z5U	0.375"	DD60471	D471M66Z5UUABEM	Bulk
500 pF	6000	±20%	Z5U	0.375"	DD60501	D501M66Z5UUABEM	Bulk
750 pF	6000	±20%	Z5U	0.375"	DD60751	D751M66Z5UUABEM	Bulk
820 pF	6000	±20%	Z5U	0.375"	DD60821	D821M66Z5UUABEM	Bulk

Ceramic Disc Capacitors General Purpose

PHILIPS

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
1000 pF	6000	±20%	Z5U	0.375"	DD60102	D102M66Z5UUABEM	Bulk
1200 pF	6000	±20%	Z5U	0.375"	DD60122	D122M66Z5UUABEM	Bulk
1500 pF	6000	±20%	Z5U	0.375"	DD60152	D152M66Z5UUABEM	Bulk
2000 pF	6000	±20%	Z5U	0.375"	DD60202	D202M76Z5UUABEM	Bulk
2200 pF	6000	±20%	Z5U	0.375"	DD60222	D222M76Z5UUABEM	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.



Low Voltage Class IV Ultra-Kap Ceramic Disc Capacitors

Features

- Unique Semi-Conductor Design
- Maximum Capacitance While Maintaining Standard Disc Size

Electrical Parameters

Capacitance Range: 0.01 μ F through 0.47 μ F
 Working Voltage DC: 12, 16, 25 & 50VDC
 Materials Available: Y5S & Y5P

Part Number

- See Table 1

Marking

- Manufacturer's Identification, Capacitance, Tolerance, Rated Voltage, Temperature Characteristic

Packaging

- Available Bulk and Tape & Reel

Lead Material Available

- 100% Copper, solder coated

Encapsulation

- Phenolic Resin Coated

Series U Table 1

U	104	M	40	Y5S	B	AA	JY
U Ultra-Kap product line	Capacitance Value (PF) First 2 digits are significant, third digit is a multiplier as follows 2 x 100 3 x 1000 4 x 10,000 5 x 100,000	Tolerance Code M \pm 20% Z +80/-20%	Size Code 20 .197" dia. x .157 thick 25 .256" dia. x .157 thick 29 .290" dia. x .157 thick 31 .310" dia. x .157 thick 35 .350" dia. x .157 thick 39 .390" dia. x .157 thick 40 .405" dia. x .157 thick 47 .472" dia. x .157 thick 49 .490" dia. x .157 thick 59 .590" dia. x .157 thick 69 .690" dia. x .157 thick 72 .720" dia. x .157 thick 82 .820" dia. x .157 thick Unless otherwise specified in STANDARD STOCK ITEMS' listing	Temperature Characteristics Y5S \pm 22% Max Cap Change from -30°C to +85°C Y5P \pm 10% Max Cap Change from -30°C to +85°C	Voltage Code B 12VDC C 16VDC E 25VDC F 50VDC	Test Code JA JB JG JH JL JN JT JU JW JX JY KC KD KE KF KG KH KM KN KP KR KU KW KX KY LF LJ	IR in MegΩ's .001 .002 .01 .02 .05 .1 .2 .25 .3 .4 .5 1 1.5 2 3 4 5 10 15 20 30 50 65 80 100 500 1000

Ultra-Kap™ Distributor Part Number

UK25

Series Volt Tol
UK10 12v Z
UK12 12v M
UK16 16v M
UK25 25v M

103

Capacitance (pF)
103 = 10,000pF
i.e. the third digit signifies
the number of zeros

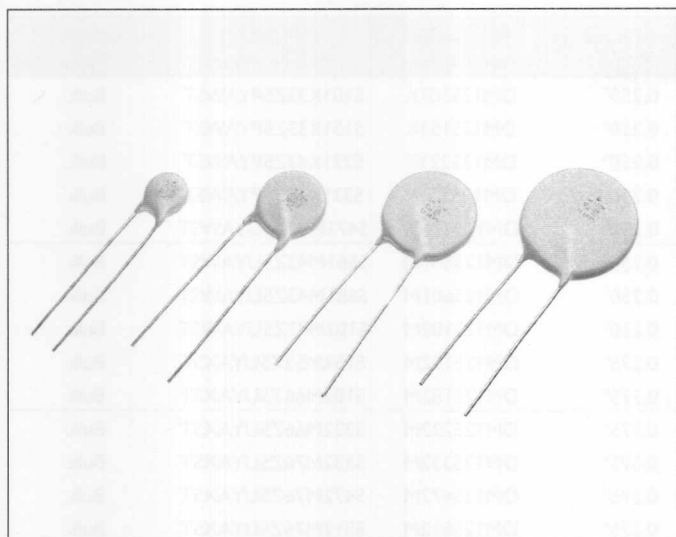
Conversion Factors:
1 inch = 25.4001 mm
1 mm = .03937 inch

Mechanical & Packaging Code

Code	Lead Space	Lead Dia.	Lead Length	Form	Pack
AA	.250"	#22	1.00* min.	SLL	Bulk
AB	.375"	#22	1.00* min.	SLL	Bulk
BE	.250"	#22	.187 +.031/-.016*	SLC	Bulk
BF	.375"	#22	.187 +.031/-.016*	SLC	Bulk
CE	.250"	#22	.187 +.031/-.016*	BBC	Bulk
CF	.375"	#22	.187 +.031/-.016*	BBC	Bulk
EA	.250"	#22	1.00* min.	SOL	Bulk
EB	.375"	#22	1.00* min.	SOL	Bulk
FE	.250"	#22	.187 +.031/-.016*	IKC	Bulk
FF	.375"	#22	.187 +.031/-.016*	IKC	Bulk
GE	.250"	#22	.187 +.031/-.016*	OKC	Bulk
GF	.375"	#22	.187 +.031/-.016*	OKC	Bulk
MA	.200"	#22	1.00* min.	SLL	Bulk
TE	.250"	#22	H = 16mm min.	SLC	Tape & Reel
TF	.250"	#22	Ho = 16 \pm 0.5mm	IKC	Tape & Reel
TH	.200"	#22	Ho = 16 \pm 0.5mm	IKC	Tape & Reel
TK	.200"	#22	Ho = 16 \pm 0.5mm	SOL	Tape & Reel
TM	.200"	#22	H = 16mm min.	SLC	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
0.05 μ F	12	$\pm 20\%$	Y5S	0.250"	UK12503	U503M25Y5SBAAJY	Bulk
0.05 μ F	12	+80%/-20%	Y5S	0.250"	UK10503	U503Z25Y5SBAAJY	Bulk
0.1 μ F	12	$\pm 20\%$	Y5S	0.250"	UK12104	U104M31Y5SBAAJY	Bulk
0.1 μ F	12	+80%/-20%	Y5S	0.250"	UK10104	U104Z31Y5SBAAJY	Bulk
0.20 μ F	12	$\pm 20\%$	Y5S	0.375"	UK12204	U204M49Y5SBABJX	Bulk
0.47 μ F	12	$\pm 20\%$	Y5S	0.375"	UK12474	U474M82Y5SBABJT	Bulk
0.01 μ F	16	$\pm 20\%$	Y5S	0.250"	UK16103	U103M20Y5SCAAKH	Bulk
0.022 μ F	16	$\pm 20\%$	Y5S	0.250"	UK16223	U223M20Y5SCAAKU	Bulk
0.033 μ F	16	$\pm 20\%$	Y5S	0.250"	UK16333	U333M25Y5SCAAKF	Bulk
0.05 μ F	16	$\pm 20\%$	Y5S	0.250"	UK16503	U503M25Y5SCAAKE	Bulk
0.068 μ F	16	$\pm 20\%$	Y5S	0.250"	UK16683	U683M25Y5SCAAKD	Bulk
0.1 μ F	16	$\pm 20\%$	Y5S	0.375"	UK16104	U104M31Y5SCABKC	Bulk
0.15 μ F	16	$\pm 20\%$	Y5S	0.375"	UK16154	U154M49Y5SCABKA	Bulk
0.20 μ F	16	$\pm 20\%$	Y5S	0.375"	UK16204	U204M49Y5SCABJX	Bulk
0.30 μ F	16	$\pm 20\%$	Y5S	0.375"	UK16304	U304M59Y5SCABJW	Bulk
0.01 μ F	25	$\pm 20\%$	Y5P	0.250"	UK25103	U103M20Y5PEAAKW	Bulk
0.022 μ F	25	$\pm 20\%$	Y5P	0.250"	UK25223	U223M25Y5PEAAKU	Bulk
0.033 μ F	25	$\pm 20\%$	Y5P	0.250"	UK25333	U333M25Y5PEAAKR	Bulk
0.05 μ F	25	$\pm 20\%$	Y5P	0.250"	UK25503	U503M29Y5PEAAKP	Bulk
0.068 μ F	25	$\pm 20\%$	Y5P	0.250"	UK25683	U683M49Y5PEAAKN	Bulk
0.1 μ F	25	$\pm 20\%$	Y5P	0.375"	UK25104	U104M49Y5PEABKM	Bulk
0.15 μ F	25	$\pm 20\%$	Y5P	0.375"	UK25154	U154M69Y5PEABKJ	Bulk
0.20 μ F	25	$\pm 20\%$	Y5P	0.375"	UK25204	U204M69Y5PEABKG	Bulk
0.01 μ F	50	$\pm 20\%$	Y5P	0.250"	UK50103	U103M20Y5PFAALJ	Bulk
0.015 μ F	50	$\pm 20\%$	Y5P	0.250"	UK50153	U153M25Y5PFAALG	Bulk
0.022 μ F	50	$\pm 20\%$	Y5P	0.250"	UK50223	U223M25Y5PFAALF	Bulk
0.033 μ F	50	$\pm 20\%$	Y5P	0.375"	UK50333	U333M39Y5PFABLE	Bulk
0.047 μ F	50	$\pm 20\%$	Y5P	0.375"	UK50473	U473M39Y5PFABLC	Bulk
0.05 μ F	50	$\pm 20\%$	Y5P	0.375"	UK50503	U503M39Y5PFABLC	Bulk
0.068 μ F	50	$\pm 20\%$	Y5P	0.375"	UK50683	U683M49Y5PFABKY	Bulk
0.1 μ F	50	$\pm 20\%$	Y5P	0.375"	UK50104	U104M59Y5PFABKY	Bulk



125VAC, 250VAC & 400VAC UL, CSA & VDE Listed Ceramic Disc Capacitors

Features

- Safety Recognized AC Capacitors
- Specially Designed for Across-The-Line, Antenna-Coupling and Line-By-Pass Applications.

Type DL Capacitors

UL File No. E95439(N) per UL-1414, 250VAC
CSA File No. LR61253-4 per CSA C22.2 class 2221 01, 125VAC
VDE File No. 49936/49937 per VDE 0560 part 2/5.70, 400VAC

Type DM Capacitors

UL File No. E95439(N) per UL-1414, 125VAC
CSA File No. LR61253-4 per CSA C22.2 class 2221 01, 125VAC
VDE File No. 53134/55424, 125VAC per VDE 0565 Part 1/12.79 & Part A1/6.84, Class XI & Y, 250VAC (100 to 5100 pF)

Part Number

- See Table 1

Marking

- Manufacturer's Identification, Capacitance, Tolerance & Safety Approval Mark

Packaging

- Available Bulk Only

Lead Material Available

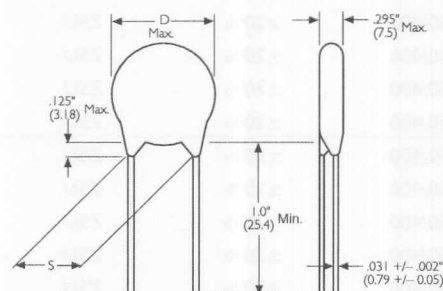
- 100% Copper, solder coated

Encapsulation

- Epoxy Resin Coated (Flammability 94V-0)

Electrical Parameters

Capacitance Range: 100 pF through 0.01 μ F
Working Voltage DC: 125/250VAC & 250/400VAC
Materials Available: Z5P & Z5U



* For detailed size chart please refer to Ceramic Capacitors Series D and S page 271.

Table 1
Ceramic Disc Capacitors
Series S-UL

S	102	M	43	Z5U	Q	AW	ST
S Special Capacitors	Capacitance Value (pF) First 2 digits are significant, third digit is a multiplier as follows 0 x 1 1 x 10 2 x 100 3 x 1000	Tolerance Code K \pm 10% M \pm 20%	Size Code 33 .330" Dia 43 .430" Dia 52 .520" Dia 66 .660" Dia 76 .760" Dia 79 .790" Dia 86 .860" Dia 96 .960" Dia	Temperature Characteristics Z5P \pm 10% Max Cap Change from +10°C to +85°C Z5U +22/-56% Max Cap Change from +10°C to +85°C	Voltage Code Q 250VAC, 60Hz Y 125VAC, 60Hz Note: Q used for 400V per VDE	Mechanical Code Bulk Only AW Bulk, .250" Spacing 1.00" Length, Tinned Copper, .032" Wire Dia. AX Bulk, .375" Spacing, 1.00" Length, Tinned Copper, .032" Wire Dia.	Test Code ST UI/CSA/VDE Testing Performed

Distributor Part Number DM125 & DL250 UL Listed Capacitors

	DM125	102	J
Series	DM125		
Volt	125VAC		
Capacitance (pF)		102 = 1,000 pF i.e. the third digit signifies the number of zeros	
Tolerance			K = \pm 10% M = \pm 20% Z = +80/-20%

Conversion Factors:
1 inch = 25.4001 mm
1mm = .03937 inch

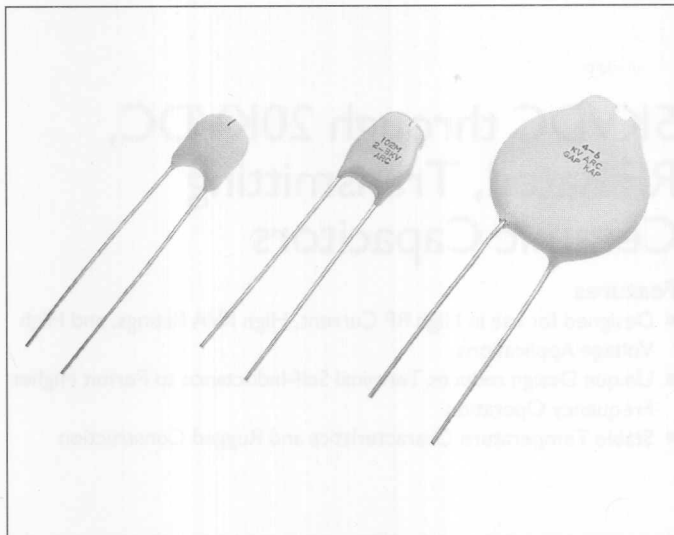
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06(A).

Ceramic Series S-UL Disc Capacitors

PHILIPS

Capacitance Value	AC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
100 pF	125	±10%	Z5P	0.250"	DM125101K	S101K33Z5PYAWST	Bulk
150 pF	125	±10%	Z5P	0.250"	DM125151K	S151K33Z5PYAWST	Bulk
220 pF	125	±10%	Z5P	0.250"	DM125221K	S221K43Z5PYAWST	Bulk
330 pF	125	±10%	Z5P	0.250"	DM125331K	S331K43Z5PYAWST	Bulk
470 pF	125	±20%	Z5U	0.250"	DM125471M	S471M43Z5UYAWST	Bulk
560 pF	125	±20%	Z5U	0.250"	DM125561M	S561M43Z5UYAWST	Bulk
680 pF	125	±20%	Z5U	0.250"	DM125681M	S681M43Z5UYAWST	Bulk
1000 pF	125	±20%	Z5U	0.250"	DM125102M	S102M43Z5UYAWST	Bulk
1500 pF	125	±20%	Z5U	0.375"	DM125152M	S152M52Z5UYAXST	Bulk
1800 pF	125	±20%	Z5U	0.375"	DM125182M	S182M66Z5UYAXST	Bulk
2200 pF	125	±20%	Z5U	0.375"	DM125222M	S222M66Z5UYAXST	Bulk
3300 pF	125	±20%	Z5U	0.375"	DM125332M	S332M76Z5UYAXST	Bulk
4700 pF	125	±20%	Z5U	0.375"	DM125472M	S472M76Z5UYAXST	Bulk
5100 pF	125	±20%	Z5U	0.375"	DM125512M	S512M76Z5UYAXST	Bulk
6800 pF	125	±20%	Z5U	0.375"	DM125682M	S682M79Z5UYAXST	Bulk
8200 pF	125	±20%	Z5U	0.375"	DM125822M	S822M86Z5UYAXST	Bulk
0.01 µF	125	±20%	Z5U	0.375"	DM125103M	S103M96Z5UYAXST	Bulk
100 pF	250/400	±10%	Z5P	0.250"	DL250101K	S101K33Z5PQAWST	Bulk
150 pF	250/400	±10%	Z5P	0.250"	DL250151K	S151K33Z5PQAWST	Bulk
220 pF	250/400	±10%	Z5P	0.250"	DL250221K	S221K43Z5PQAWST	Bulk
330 pF	250/400	±10%	Z5P	0.250"	DL250331K	S331K43Z5PQAWST	Bulk
470 pF	250/400	±20%	Z5U	0.250"	DL250471M	S471M43Z5UQAWST	Bulk
560 pF	250/400	±20%	Z5U	0.250"	DL250561M	S561M43Z5UQAWST	Bulk
680 pF	250/400	±20%	Z5U	0.250"	DL250681M	S681M43Z5UQAWST	Bulk
1000 pF	250/400	±20%	Z5U	0.250"	DL250102M	S102M43Z5UQAWST	Bulk
1500 pF	250/400	±20%	Z5U	0.375"	DL250152M	S152M52Z5UQAWST	Bulk
1800 pF	250/400	±20%	Z5U	0.375"	DL250182M	S182M66Z5UQAXST	Bulk
2200 pF	250/400	±20%	Z5U	0.375"	DL250222M	S222M66Z5UQAXST	Bulk
3300 pF	250/400	±20%	Z5U	0.375"	DL250332M	S332M76Z5UQAXST	Bulk
4700 pF	250/400	±20%	Z5U	0.375"	DL250472M	S472M76Z5UQAXST	Bulk
5100 pF	250/400	±20%	Z5U	0.375"	DL250512M	S512M76Z5UQAXST	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.



Gap-Kap Spark-Gap Ceramic Capacitors

Features

- Provides a Safe, Reliable discharge Path for Stray Transient Over-Voltages and Static Voltage Build-Up
- Capacitor, Spark-Gap Construction allows for Lower Voltage Components.

Part Number

- See General Purpose Disc Capacitors Table 1 for Part Number System page 271

Marking

- See Figure 1

Packaging

- Available Bulk Only

Lead Material Available

- 100% Copper, solder coated

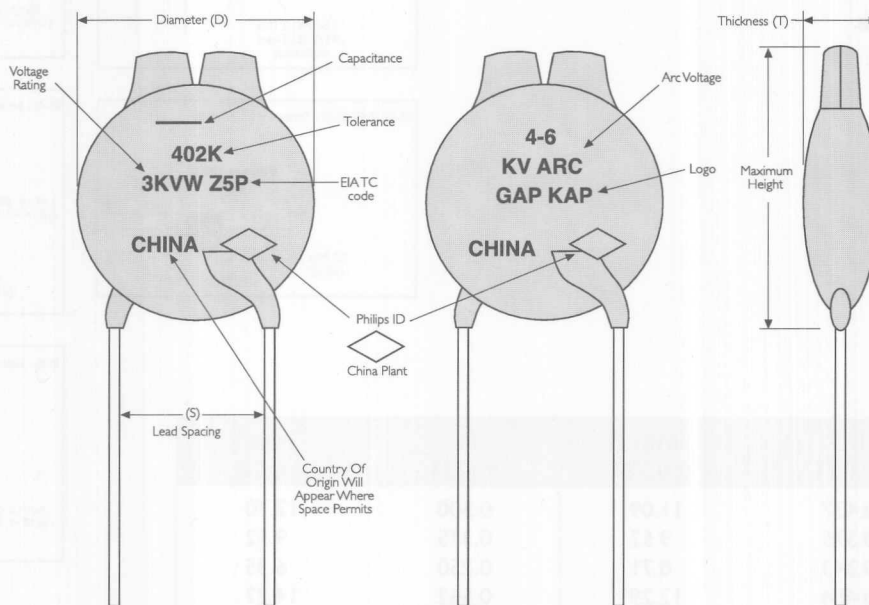
Encapsulation

- Phenolic Resin

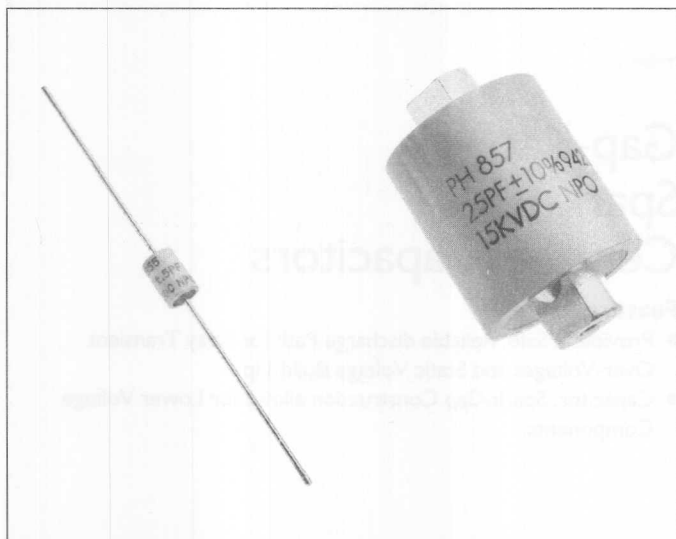
Electrical Parameters

Capacitance Range:	0.75 pF through 0.02 μ F
Working Voltage Range:	1000VDC and 3000VDC
ARC Voltage:	1000-2000, 2000-3000 or 4000-6000VDC as listed.
Materials Available:	000, Z5P & Z5U

Figure 1 Marking



Capacitance Value	AC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Distributor Part Number	Philips Part Number	Packaging Type
0.75 pF	1000	Max. Value	000	.250"	GAPR75	S758X44000NAZAA	Bulk
1000 pF	1000	$\pm 20\%$	Z5P	.250"	GAP102	S102M40Z5PNAZAA	Bulk
4000 pF	3000	$\pm 10\%$	Z5P	.375"	GAP402	S402K96Z5PRAZAA	Bulk
0.01 μ F	1000	$\pm 20\%$	Z5U	.375"	GAP103	S103M69Z5UNAZAB	Bulk
0.02 μ F	1000	$\pm 20\%$	Z5U	.375"	GAP203	S203M93Z5UNAZAA	Bulk



5KVDC through 20KVDC, RF Rated, Transmitting Ceramic Capacitors

Features

- Designed for use in High RF Current, High KVA Ratings, and High Voltage Applications.
- Unique Design reduces Terminal Self-Inductance to Permit Higher Frequency Operation
- Stable Temperature Characteristics and Rugged Construction

Part Number

- See Table 1

Marking

- Manufacturer's Identification, Catalog Number, Capacitance, Tolerance, Working Voltage, and Temperature Coefficient or EIA Temperature Characteristic Code

Packaging

- Individually Wrapped or Bulk Packaged, One Per Cavity in Protective Nest

Lead Material Available

- Tinned Wire

Terminals Available

- Silver Plated

Electrical Parameters

Capacitance Range:

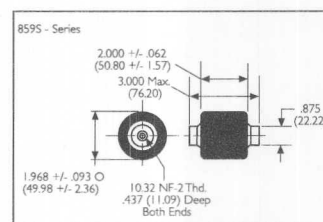
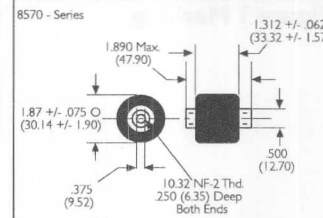
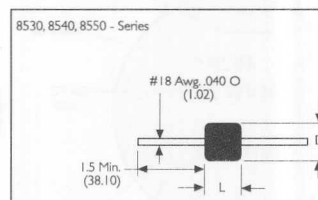
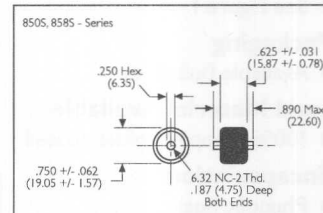
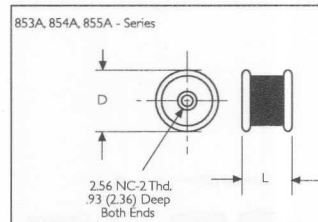
3 pF through 1000 pF

Working Voltage DC:

5000VDC Through 20000VDC

Materials Available:

C0G, N750, N3300, X5T & Z5U

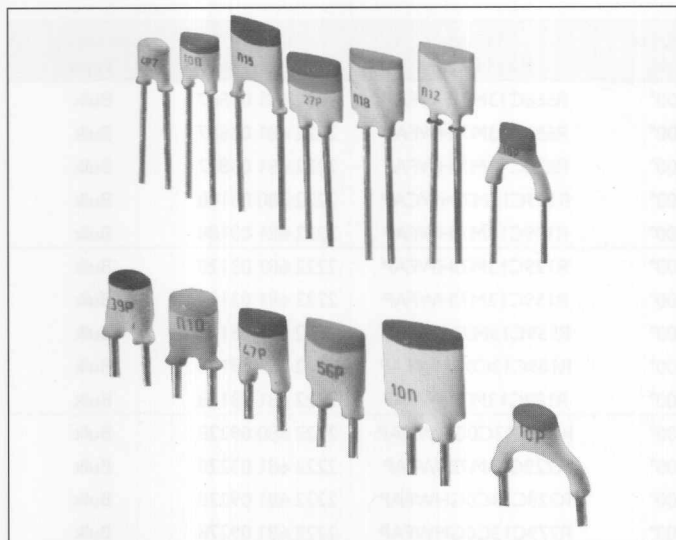


Series	in. ±.031	mm ±0.78	in. ±.031	mm ±0.78
853	0.437	11.09	0.500	12.70
854	0.375	9.52	0.375	9.52
855	0.343	8.71	0.250	6.35
853A	0.484	12.29	0.562	14.27
854A	0.422	10.71	0.437	11.09
855A	0.390	9.90	0.312	7.92

Table 1
Transmitting, Special Applications Ceramic Capacitors
Series T

T	750	K	99	U2I	V	850S
Product Series	Capacitance Code	Tolerance	Case Size	Dielectric Type	Voltage Code	Product Style

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.



Miniature Single Layer Ceramic Plate Capacitors

Features

- Radial leads with a flange to guarantee lacquer free leads
- Narrow Capacitance Tolerances Available
- Epoxy Lacquer encapsulated

Part Number

- See Table 1

Marking

- Capacitance Marked in pF for units up to 100 pF, with "p" denoting the decimal position; for units 100 pF and above, the Nano Farad is used, with "n" denoting the decimal position.

Packaging

- Available Bulk and Tape & Reel & Ammo Pack

Encapsulation

- Conformally Coated Epoxy

Electrical Parameters

Capacitance Range:	0.47 pF through 0.047 μ F
Working Voltage DC:	50, 100, 500 & 1000VDC
Materials Available:	M7J, C0G, U1G, P2G, R2G, S2H, T2H, U2J, P3K, Y5P & Z5U

Plate Capacitor

Series R

R	100	G	13	C0G	H	WG	AP
Series					Voltage		
		Tolerance			F 50V (Z5V)		AP Class I
		C \pm 0.25 pF (< 10 pF)			H 100V		SP Class II or III
		G \pm 2% (Class I \geq 10 pF)			L 500VDC		
		K \pm 10% (Y5P)			N 1000 VDC		
		Z +80/-20% (Z5V)					
Capacitance (pF)					Mechanical code		
100 = 10 pF					Lead Space	Lead Length	Packaging/Qty.
i.e. the third digit signifies the number of zeros					WC .100"	.500" min.	Bulk: 1K
		Size	Length	Height	WD .200"	.157" \pm .020"	Bulk: 1K
		13	.142"	.248"	WE .100"	.157" \pm .020"	Bulk: 1K
		23	.177"	.288"	WF .200"	.500" min.	Bulk: 1K
		33	.201"	.311"	WG .200"	Ho = 18mm	Tape & Reel: 4K
		43	.244"	.354"	WH .100"	Ho = 18mm	Tape & Reel: 4K
		53	.244"	.441"	WJ .200"	Ho = 18mm	Ammo, 4K
		.100" Max thick			WK .100"	Ho = 18mm	Ammo, 4K
				Temperature Characteristic			
				M7J P100			
				C0G NP0			
				U1G N075			
				P2G N150			
				R2G N220			
				S2H N330			
				T2H N470			
				U2J N750			
				P3K N1500			
				Y5P \pm 10% Δ C: -30° to +85°C			
				Z5V +22%-82% Δ C: +10 to +85°C			
				X5U +22/-56% Δ C: -55°C to +85°C			

Conversion Factors:
1 inch = 25.4001 mm
1 mm = .03937 inch

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Philips Part Number	12NC Part Number	Packaging Type
0.56 pF	100	±.25 pF	M7J	0.200"	R568C13M7JHWFAP	2222 681 03567	Bulk
0.68 pF	100	±.25 pF	M7J	0.200"	R688C13M7JHWFAP	2222 681 03687	Bulk
0.82 pF	100	±.25 pF	M7J	0.200"	R828C13M7JHWFAP	2222 681 03827	Bulk
1.0 pF	100	±.25 pF	M7J	0.100"	R109C13M7JHWCAP	2222 680 03108	Bulk
1.0 pF	100	±.25 pF	M7J	0.200"	R109C13M7JHWFAP	2222 681 03108	Bulk
1.2 pF	100	±.25 pF	M7J	0.200"	R129C13M7JHWFAP	2222 681 03128	Bulk
1.5 pF	100	±.25 pF	M7J	0.200"	R159C13M7JHWFAP	2222 681 03158	Bulk
1.5 pF	100	±.25 pF	M7J	0.100"	R159C13M7JHWCAP	2222 680 03158	Bulk
1.8 pF	100	±.25 pF	C0G	0.200"	R189C13C0GHWFAP	2222 681 09188	Bulk
1.8 pF	100	±.25 pF	M7J	0.200"	R189C13M7JHWFAP	2222 681 03188	Bulk
2.2 pF	100	±.25 pF	C0G	0.100"	R229C13C0GHWCAP	2222 680 09228	Bulk
2.2 pF	100	±.25 pF	M7J	0.200"	R229C13M7JHWFAP	2222 681 03228	Bulk
2.2 pF	100	±.25 pF	C0G	0.200"	R229C13C0GHWFAP	2222 681 09228	Bulk
2.7 pF	100	±.25 pF	C0G	0.200"	R279C13C0GHWFAP	2222 681 09278	Bulk
2.7 pF	100	±.25 pF	C0G	0.100"	R279C13C0GHWCAP	2222 680 09278	Bulk
3.3 pF	100	±.25 pF	M7J	0.100"	R339C13M7JHWCAP	2222 680 03338	Bulk
3.3 pF	100	±.25 pF	C0G	0.200"	R339C13C0GHWFAP	2222 681 09338	Bulk
3.3 pF	100	±.25 pF	M7J	0.200"	R339C13M7JHWFAP	2222 681 03338	Bulk
3.9 pF	100	±.25 pF	C0G	0.100"	R399C13C0GHWCAP	2222 680 09398	Bulk
3.9 pF	100	±.25 pF	C0G	0.200"	R399C13C0GHWFAP	2222 681 09398	Bulk
3.9 pF	100	±.25 pF	U2J	0.200"	R399C13U2JHWFAP	2222 681 57398	Bulk
3.9 pF	100	±.25 pF	U2J	0.100"	R399C13U2JHWCAP	2222 680 57398	Bulk
3.9 pF	100	±.25 pF	M7J	0.200"	R399C13M7JHWFAP	2222 681 03398	Bulk
4.7 pF	100	±.25 pF	C0G	0.100"	R479C13C0GHWCAP	2222 680 09478	Bulk
4.7 pF	100	±.25 pF	M7J	0.200"	R479C13M7JHWFAP	2222 681 03478	Bulk
4.7 pF	100	±.25 pF	U2J	0.100"	R479C13U2JHWCAP	2222 680 57478	Bulk
4.7 pF	100	±.25 pF	C0G	0.200"	R479C13C0GHWFAP	2222 681 09478	Bulk
4.7 pF	100	±.25 pF	U2J	0.200"	R479C13U2JHWFAP	2222 681 57478	Bulk
5.6 pF	100	±.25 pF	C0G	0.200"	R569C13C0GHWFAP	2222 681 09568	Bulk
5.6 pF	100	±.25 pF	U2J	0.200"	R569C13U2JHWFAP	2222 681 57568	Bulk
5.6 pF	100	±.25 pF	M7J	0.200"	R569C13M7JHWFAP	2222 681 03568	Bulk
5.6 pF	100	±.25 pF	C0G	0.100"	R569C13C0GHWCAP	2222 680 09568	Bulk
5.6 pF	100	±.25 pF	U2J	0.100"	R569C13U2JHWCAP	2222 680 57568	Bulk
6.8 pF	100	±.25 pF	C0G	0.200"	R689C13C0GHWFAP	2222 681 09688	Bulk
6.8 pF	100	±.25 pF	U2J	0.200"	R689C13U2JHWFAP	2222 681 57688	Bulk
6.8 pF	100	±.25 pF	C0G	0.100"	R689C13C0GHWCAP	2222 680 09688	Bulk
6.8 pF	100	±.25 pF	U2J	0.100"	R689C13U2JHWCAP	2222 680 57688	Bulk
6.8 pF	100	±.25 pF	M7J	0.200"	R689C13M7JHWFAP	2222 681 03688	Bulk
8.2 pF	100	±.25 pF	U2J	0.100"	R829C13U2JHWCAP	2222 680 57828	Bulk
8.2 pF	100	±.25 pF	C0G	0.100"	R829C13C0GHWCAP	2222 680 09828	Bulk
8.2 pF	100	±.25 pF	C0G	0.200"	R829C13C0GHWFAP	2222 681 09828	Bulk
8.2 pF	100	±.25 pF	M7J	0.200"	R829C23M7JHWFAP	2222 681 03828	Bulk
8.2 pF	100	±.25 pF	U2J	0.200"	R829C13U2JHWFAP	2222 681 57828	Bulk
10 pF	100	±2%	P2G	0.100"	R100G13P2GHWCAP	2222 680 34109	Bulk
10 pF	100	±2%	C0G	0.200"	R100G13C0GHWFAP	2222 681 10109	Bulk
10 pF	100	±2%	C0G	0.100"	R100G13C0GHWCAP	2222 680 10109	Bulk
10 pF	100	±2%	M7J	0.200"	R100G23M7JHWFAP	2222 681 04109	Bulk
10 pF	100	±2%	U2J	0.200"	R100G13U2JHWFAP	2222 681 58109	Bulk
10 pF	100	±2%	U2J	0.100"	R100G13U2JHWCAP	2222 680 58109	Bulk
12 pF	100	±2%	C0G	0.200"	R120G13C0GHWFAP	2222 681 10129	Bulk

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Philips Part Number	12NC Part Number	Packaging Type
12 pF	100	±2%	C0G	0.100"	R120G13C0GHWCAP	2222 680 10129	Bulk
12 pF	100	±2%	U2J	0.200"	R120G13U2JHWFAP	2222 681 58129	Bulk
12 pF	100	±2%	M7J	0.200"	R120G23M7JHWFAP	2222 681 04129	Bulk
12 pF	100	±2%	P2G	0.100"	R120G13P2GHWCAP	2222 680 34129	Bulk
12 pF	100	±2%	U2J	0.100"	R120G13U2JHWCAP	2222 680 58129	Bulk
15 pF	100	±2%	U2J	0.100"	R150G13U2JHWCAP	2222 680 58159	Bulk
15 pF	100	±2%	U2J	0.200"	R150G13U2JHWFAP	2222 681 58159	Bulk
15 pF	100	±2%	M7J	0.200"	R150G23M7JHWFAP	2222 681 04159	Bulk
15 pF	100	±2%	C0G	0.100"	R150G13C0GHWCAP	2222 680 10159	Bulk
15 pF	100	±2%	C0G	0.200"	R150G13C0GHWFAP	2222 681 10159	Bulk
15 pF	100	±2%	P2G	0.100"	R150G13P2GHWCAP	2222 680 34159	Bulk
18 pF	100	±2%	U2J	0.100"	R180G13U2JHWCAP	2222 680 58189	Bulk
18 pF	100	±2%	P2G	0.200"	R180G13P2GHWFAP	2222 681 34189	Bulk
18 pF	100	±2%	C0G	0.100"	R180G13C0GHWCAP	2222 680 10189	Bulk
18 pF	100	±2%	P3K	0.200"	R180G13P3KHWFAP	2222 681 70189	Bulk
18 pF	100	±2%	M7J	0.200"	R180G33M7JHWFAP	2222 681 04189	Bulk
18 pF	100	±2%	C0G	0.200"	R180G13C0GHWFAP	2222 681 10189	Bulk
18 pF	100	±2%	U2J	0.200"	R180G13U2JHWFAP	2222 681 58189	Bulk
22 pF	100	±2%	C0G	0.100"	R220G13C0GHWCAP	2222 680 10229	Bulk
22 pF	100	±2%	U2J	0.100"	R220G13U2JHWCAP	2222 680 58229	Bulk
22 pF	100	±2%	P2G	0.100"	R220G13P2GHWCAP	2222 680 34229	Bulk
22 pF	100	±2%	P3K	0.200"	R220G13P3KHWFAP	2222 681 70229	Bulk
22 pF	100	±2%	M7J	0.200"	R220G33M7JHWFAP	2222 681 04229	Bulk
22 pF	100	±2%	C0G	0.200"	R220G13C0GHWFAP	2222 681 10229	Bulk
22 pF	100	±2%	U2J	0.200"	R220G13U2JHWFAP	2222 681 58229	Bulk
27 pF	100	±2%	P3K	0.200"	R270G13P3KHWFAP	2222 681 70279	Bulk
27 pF	100	±2%	M7J	0.200"	R270G43M7JHWFAP	2222 681 04279	Bulk
27 pF	100	±2%	U2J	0.200"	R270G13U2JHWFAP	2222 681 58279	Bulk
27 pF	100	±2%	C0G	0.100"	R270G13C0GHWCAP	2222 680 10279	Bulk
27 pF	100	±2%	U2J	0.100"	R270G13U2JHWCAP	2222 680 58279	Bulk
27 pF	100	±2%	C0G	0.200"	R270G13C0GHWFAP	2222 681 10279	Bulk
27 pF	100	±2%	P2G	0.100"	R270G13P2GHWCAP	2222 680 34279	Bulk
33 pF	100	±2%	U2J	0.200"	R330G13U2JHWFAP	2222 681 58339	Bulk
33 pF	100	±2%	P3K	0.200"	R330G13P3KHWFAP	2222 681 70339	Bulk
33 pF	100	±2%	P2G	0.100"	R330G13P2GHWCAP	2222 680 34339	Bulk
33 pF	100	±2%	C0G	0.100"	R330G13C0GHWCAP	2222 680 10339	Bulk
33 pF	100	±2%	C0G	0.200"	R330G13C0GHWFAP	2222 681 10339	Bulk
33 pF	100	±2%	M7J	0.200"	R330G43M7JHWFAP	2222 681 04339	Bulk
33 pF	100	±2%	U2J	0.100"	R330G13U2JHWCAP	2222 680 58339	Bulk
39 pF	100	±2%	P3K	0.200"	R390G13P3KHWFAP	2222 681 70399	Bulk
39 pF	100	±2%	C0G	0.100"	R390G23C0GHWCAP	2222 680 10399	Bulk
39 pF	100	±2%	U2J	0.100"	R390G13U2JHWCAP	2222 680 58399	Bulk
39 pF	100	±2%	U2J	0.200"	R390G13U2JHWFAP	2222 681 58399	Bulk
39 pF	100	±2%	C0G	0.200"	R390G23C0GHWFAP	2222 681 10399	Bulk
39 pF	100	±2%	M7J	0.200"	R390G53M7JHWFAP	2222 681 04399	Bulk
39 pF	100	±2%	P2G	0.100"	R390G23P2GHWCAP	2222 680 34399	Bulk
47 pF	100	±2%	C0G	0.200"	R470G23C0GHWFAP	2222 681 10479	Bulk
47 pF	100	±2%	C0G	0.100"	R470G23C0GHWCAP	2222 680 10479	Bulk
47 pF	100	±2%	P3K	0.200"	R470G13P3KHWFAP	2222 681 70479	Bulk
47 pF	100	±2%	U2J	0.100"	R470G13U2JHWCAP	2222 680 58479	Bulk

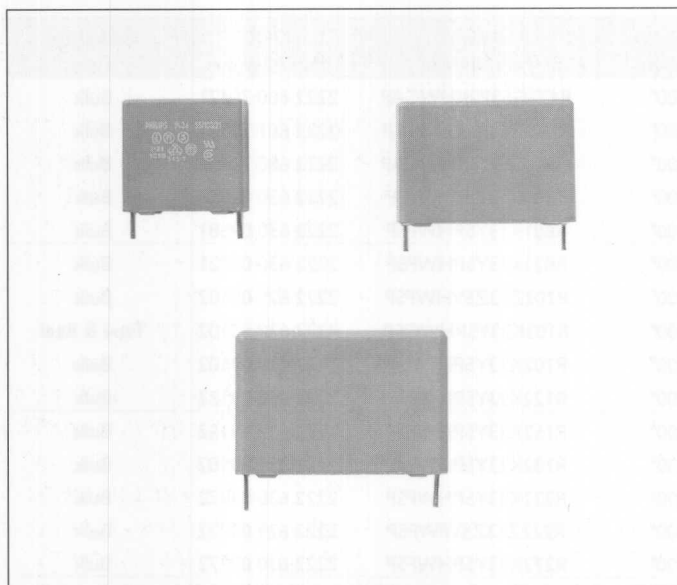
Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Philips Part Number	12NC Part Number	Packaging Type
47 pF	100	±2%	U2J	0.200"	R470G13U2JHWFAP	2222 681 58479	Bulk
47 pF	100	±2%	M7J	0.200"	R470G53M7JHWFAP	2222 681 04479	Bulk
47 pF	100	±2%	P2G	0.100"	R470G23P2GHWCAP	2222 680 34479	Bulk
56 pF	100	±2%	U2J	0.200"	R560G23U2JHWFAP	2222 681 58569	Bulk
56 pF	100	±2%	C0G	0.100"	R560G23C0GHWCAP	2222 680 10569	Bulk
56 pF	100	±2%	P3K	0.200"	R560G13P3KHWFAP	2222 681 70569	Bulk
56 pF	100	±2%	U2J	0.100"	R560G23U2JHWCAP	2222 680 58569	Bulk
56 pF	100	±2%	C0G	0.200"	R560G23C0GHWFAP	2222 681 10569	Bulk
56 pF	100	±2%	P2G	0.100"	R560G23P2GHWCAP	2222 680 54569	Bulk
68 pF	100	±2%	U2J	0.200"	R680G23U2JHWFAP	2222 681 58689	Bulk
68 pF	100	±2%	U2J	0.100"	R680G23U2JHWCAP	2222 680 58689	Bulk
68 pF	100	±2%	P2G	0.100"	R680G23P2GHWCAP	2222 680 34689	Bulk
68 pF	100	±2%	C0G	0.200"	R680G23C0GHWFAP	2222 681 10689	Bulk
82 pF	100	±2%	U2J	0.200"	R820G23U2JHWFAP	2222 681 58829	Bulk
82 pF	100	±2%	P2G	0.100"	R820G33P2GHWCAP	2222 680 34829	Bulk
82 pF	100	±2%	P3K	0.200"	R820G13P3KHWFAP	2222 681 70829	Bulk
82 pF	100	±2%	U2J	0.100"	R820G23U2JHWCAP	2222 680 58829	Bulk
82 pF	100	±2%	C0G	0.200"	R820G23C0GHWFAP	2222 681 10829	Bulk
100 pF	100	±2%	P3K	0.200"	R101G23P3KHWFAP	2222 681 70101	Bulk
100 pF	100	±2%	P2G	0.100"	R101G33P2GHWCAP	2222 680 34101	Bulk
100 pF	100	±2%	C0G	0.200"	R101G33C0GHWFAP	2222 681 10101	Bulk
100 pF	100	±2%	P3K	0.100"	R101G23P3KHWCAP	2222 680 70101	Bulk
100 pF	100	±2%	U2J	0.100"	R101G23U2JHWCAP	2222 680 58101	Bulk
100 pF	100	±2%	U2J	0.200"	R101G23U2JHWFAP	2222 681 58101	Bulk
120 pF	100	±2%	P3K	0.200"	R121G23P3KHWFAP	2222 681 70121	Bulk
120 pF	100	±2%	P3K	0.100"	R121G23P3KHWCAP	2222 680 70121	Bulk
120 pF	100	±2%	U2J	0.200"	R121G33U2JHWFAP	2222 681 58121	Bulk
120 pF	100	±2%	C0G	0.200"	R121G33C0GHWFAP	2222 681 10121	Bulk
150 pF	100	±2%	U2J	0.200"	R151G33U2JHWFAP	2222 681 58151	Bulk
150 pF	100	±2%	P3K	0.200"	R151G23P3KHWFAP	2222 681 70151	Bulk
150 pF	100	±2%	P3K	0.100"	R151G23P3KHWCAP	2222 680 70151	Bulk
180 pF	100	±2%	P3K	0.200"	R181G23P3KHWFAP	2222 681 70181	Bulk
180 pF	100	±10%	Y5P	0.200"	R181K13Y5PHWFSP	2222 630 09181	Bulk
180 pF	100	±2%	P3K	0.100"	R181G23P3KHWCAP	2222 680 70181	Bulk
180 pF	100	±2%	U2J	0.200"	R181G43U2JHWFAP	2222 681 58181	Bulk
220 pF	100	±10%	Y5P	0.200"	R221K13Y5PHWFSP	2222 630 09221	Bulk
220 pF	100	±2%	U2J	0.200"	R221G43U2JHWFAP	2222 681 58221	Bulk
220 pF	100	±2%	P3K	0.200"	R221G33P3KHWFAP	2222 681 70221	Bulk
270 pF	100	±2%	P3K	0.200"	R271G33P3KHWFAP	2222 681 70271	Bulk
270 pF	100	±2%	U2J	0.200"	R271G53U2JHWFAP	2222 681 58271	Bulk
270 pF	100	±10%	Y5P	0.200"	R271K13Y5PHWFSP	2222 630 09271	Bulk
270 pF	100	±2%	P3K	0.100"	R271G33P3KHWCAP	2222 680 70271	Bulk
330 pF	100	±10%	Y5P	0.200"	R331K13Y5PHWFSP	2222 630 09331	Bulk
330 pF	100	±2%	P3K	0.100"	R331G43P3KHWCAP	2222 680 70331	Bulk
330 pF	100	±2%	U2J	0.200"	R331G53U2JHWFAP	2222 681 58331	Bulk
330 pF	100	±2%	P3K	0.200"	R331G43P3KHWFAP	2222 681 70331	Bulk
390 pF	100	±2%	P3K	0.200"	R391G43P3KHWFAP	2222 681 70391	Bulk
390 pF	100	±2%	P3K	0.100"	R391G43P3KHWCAP	2222 680 70391	Bulk
470 pF	100	±10%	Y5P	0.200"	R471K13Y5PHWFSP	2222 630 09471	Bulk
470 pF	100	±2%	P3K	0.200"	R471G53P3KHWFAP	2222 681 70471	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA06-A.

Capacitance Value	DC Voltage	Capacitance Tolerance	Temperature Coefficient	Lead Space (Pitch)	Philips Part Number	12NC Part Number	Packaging Type
470 pF	100	±2%	P3K	0.100"	R471G53P3KHWCAP	2222 680 70471	Bulk
560 pF	100	±2%	P3K	0.200"	R561G53P3KHWFAP	2222 681 70561	Bulk
560 pF	100	±2%	P3K	0.100"	R561G53P3KHWCAP	2222 680 70561	Bulk
560 pF	100	±10%	Y5P	0.200"	R561K13Y5PHWFSF	2222 630 09561	Bulk
680 pF	100	±10%	Y5P	0.200"	R681K13Y5PHWFSF	2222 630 09681	Bulk
820 pF	100	±10%	Y5P	0.200"	R821K13Y5PHWFSF	2222 630 09821	Bulk
1000 pF	100	+80%/−20%	Z5V	0.200"	R102Z13Z5VHWFSF	2222 629 09102	Bulk
1000 pF	100	±10%	Y5P	0.200"	R102K23Y5PHWGSP	2222 630 53102	Tape & Reel
1000 pF	100	±10%	Y5P	0.200"	R102K23Y5PHWFSF	2222 630 09102	Bulk
1200 pF	100	±10%	Y5P	0.200"	R122K23Y5PHWFSF	2222 630 09122	Bulk
1500 pF	100	±10%	Y5P	0.200"	R152K23Y5PHWFSF	2222 630 09152	Bulk
1800 pF	100	±10%	Y5P	0.200"	R182K23Y5PHWFSF	2222 630 09182	Bulk
2200 pF	100	±10%	Y5P	0.200"	R222K33Y5PHWFSF	2222 630 09222	Bulk
2200 pF	50	+80%/−20%	Z5V	0.200"	R222Z13Z5VFWFSF	2222 629 09222	Bulk
2700 pF	100	±10%	Y5P	0.200"	R272K33Y5PHWFSF	2222 630 09272	Bulk
3300 pF	100	±10%	Y5P	0.200"	R332K43Y5PHWFSF	2222 630 09332	Bulk
4700 pF	100	±10%	Y5P	0.200"	R472K43Y5PHWFSF	2222 630 09472	Bulk
4700 pF	100	+80%/−20%	Z5V	0.200"	R472Z13Z5VHWFSF	2222 629 09472	Bulk
0.01 μF	50	+80%/−20%	Z5V	0.200"	R103Z23Z5VFWGSP	2222 629 53103	Tape & Reel
0.01 μF	50	+80%/−20%	Z5V	0.200"	R103Z23Z5VFWFSF	2222 629 09103	Bulk
0.022 μF	50	+80%/−20%	Z5V	0.200"	R223Z43Z5VFWFSF	2222 629 09223	Bulk

Interference Suppression Film Capacitors (MKP)

PHILIPS



Series 2222 336.1/336.2/336.6 Interference Suppression Film Capacitors (Radial Potted Box)

Features

- 10 mm to 27.5 mm lead pitch on X1 and X2
- 10 mm to 15 mm lead pitch on Y2
- Consists of a low inductive wound cell of metallized polypropylene film, potted in a flame retardent case.
- Materials qualified in accordance with UL94
- Bulk, tape and reel (restrictions apply)

Marking (Typical)

Parts are marked with Mfg, Type, Cap Code, Voltage, Sub Class, Tol, code for Dielectric Material, Year and Week of Mfg, or Year and Month, Safety Approvals

General

Cap Range on X1	1 nF to 1 μ F (275 V AC)
Cap Range on X2	1 nF to 2,2 μ F (275 V AC)
Cap Range on Y2	1 nF to 47 nF (250 V AC)
Cap Tolerance	+20%, +10%
Rated Temperature	100°C
Max Application Temp	100°C
Reference Specification	IEC 384-14 2nd Edition & EN132400
Safety Approvals	UL1414, CSA-C22.2, No. 1 SEV, VDE
Climatic Category	FI, N, D, S, IMQ, OVE 55/100/21/C

*** Note: Underwriters Laboratories (UL) and Canadian Standards Association (CSA) allow recognition/certification to 250VAC only. All other approval agencies allow approval to the rated AC voltage. 336.1/336.2 have dual voltage ratings.**

<u>2222</u>	<u>336</u>	<u>6</u>	<u>0</u>	<u>102</u>
Capacitor	Type: interference supression film	Series 1 = x1 2 = x2 6 = y2	Packaging & Tolerance 0 = 20%, Bulk 1 = 10%, Bulk 3 = 20%, Tape & Reel 4 = 10%, Tape & Reel	Capacitance

Capacitance	AC Volts	Tolerance	Pitch	Philips Part Number	Packaging Type	Type
0.0010 μ F	275V	20%	10.0mm	2222 336 10102	Bulk	X1
0.0010 μ F	275V	10%	10.0mm	2222 336 11102	Bulk	X1
0.0010 μ F	275V	20%	10.0mm	2222 336 13102	Tape & Reel	X1
0.0010 μ F	275V	10%	10.0mm	2222 336 14102	Tape & Reel	X1
0.0015 μ F	275V	20%	10.0mm	2222 336 10152	Bulk	X1
0.0015 μ F	275V	10%	10.0mm	2222 336 11152	Bulk	X1
0.0015 μ F	275V	20%	10.0mm	2222 336 13152	Tape & Reel	X1
0.0015 μ F	275V	10%	10.0mm	2222 336 14152	Tape & Reel	X1
0.0022 μ F	275V	20%	10.0mm	2222 336 10222	Bulk	X1
0.0022 μ F	275V	10%	10.0mm	2222 336 11222	Bulk	X1
0.0022 μ F	275V	20%	10.0mm	2222 336 13222	Tape & Reel	X1
0.0022 μ F	275V	10%	10.0mm	2222 336 14222	Tape & Reel	X1
0.0033 μ F	275V	20%	10.0mm	2222 336 10332	Bulk	X1
0.0033 μ F	275V	10%	10.0mm	2222 336 11332	Bulk	X1
0.0033 μ F	275V	20%	10.0mm	2222 336 13332	Tape & Reel	X1
0.0033 μ F	275V	10%	10.0mm	2222 336 14332	Tape & Reel	X1
0.0047 μ F	275V	20%	10.0mm	2222 336 10472	Bulk	X1
0.0047 μ F	275V	10%	10.0mm	2222 336 11472	Bulk	X1
0.0047 μ F	275V	20%	10.0mm	2222 336 13472	Tape & Reel	X1
0.0047 μ F	275V	10%	10.0mm	2222 336 14472	Tape & Reel	X1
0.0068 μ F	275V	20%	10.0mm	2222 336 10682	Bulk	X1
0.0068 μ F	275V	10%	10.0mm	2222 336 11682	Bulk	X1
0.0068 μ F	275V	20%	10.0mm	2222 336 13682	Tape & Reel	X1
0.0068 μ F	275V	10%	10.0mm	2222 336 14682	Tape & Reel	X1
0.010 μ F	275V	20%	10.0mm	2222 336 10103	Bulk	X1
0.010 μ F	275V	20%	15.0mm	2222 336 19001	Bulk	X1
0.010 μ F	275V	10%	15.0mm	2222 336 11103	Bulk	X1
0.010 μ F	275V	20%	10.0mm	2222 336 13103	Tape & Reel	X1
0.010 μ F	275V	20%	15.0mm	2222 336 19002	Tape & Reel	X1
0.010 μ F	275V	10%	15.0mm	2222 336 14103	Tape & Reel	X1
0.015 μ F	275V	20%	15.0mm	2222 336 10153	Bulk	X1
0.015 μ F	275V	10%	15.0mm	2222 336 11153	Bulk	X1
0.015 μ F	275V	20%	15.0mm	2222 336 13153	Tape & Reel	X1
0.015 μ F	275V	10%	15.0mm	2222 336 14153	Tape & Reel	X1
0.022 μ F	275V	20%	15.0mm	2222 336 10223	Bulk	X1
0.022 μ F	275V	10%	15.0mm	2222 336 11223	Bulk	X1
0.022 μ F	275V	20%	15.0mm	2222 336 13223	Tape & Reel	X1
0.022 μ F	275V	10%	15.0mm	2222 336 14223	Tape & Reel	X1
0.033 μ F	275V	20%	15.0mm	2222 336 10333	Bulk	X1
0.033 μ F	275V	10%	15.0mm	2222 336 11333	Bulk	X1
0.033 μ F	275V	20%	15.0mm	2222 336 13333	Tape & Reel	X1
0.033 μ F	275V	10%	15.0mm	2222 336 14333	Tape & Reel	X1
0.047 μ F	275V	20%	15.0mm	2222 336 10473	Bulk	X1
0.047 μ F	275V	10%	15.0mm	2222 336 11473	Bulk	X1
0.047 μ F	275V	20%	10.0mm	2222 336 13473	Tape & Reel	X1
0.047 μ F	275V	10%	15.0mm	2222 336 14473	Tape & Reel	X1
0.068 μ F	275V	20%	15.0mm	2222 336 10683	Bulk	X1
0.068 μ F	275V	10%	15.0mm	2222 336 11683	Bulk	X1
0.068 μ F	275V	20%	15.0mm	2222 336 13683	Tape & Reel	X1
0.068 μ F	275V	10%	15.0mm	2222 336 14683	Tape & Reel	X1

Film Capacitor Interference Suppression

PHILIPS

Capacitance	AC Volts	Tolerance	Pitch	Philips Part Number	Packaging Type	Type
0.10 μ F	275V	20%	15.0mm	2222 336 10104	Bulk	X1
0.10 μ F	275V	20%	22.5mm	2222 336 19003	Bulk	X1
0.10 μ F	275V	10%	22.5mm	2222 336 11104	Bulk	X1
0.10 μ F	275V	20%	15.0mm	2222 336 13104	Tape & Reel	X1
0.10 μ F	275V	20%	22.5mm	2222 336 19004	Tape & Reel	X1
0.10 μ F	275V	10%	22.5mm	2222 336 14104	Tape & Reel	X1
0.15 μ F	275V	20%	22.5mm	2222 336 10154	Bulk	X1
0.15 μ F	275V	10%	22.5mm	2222 336 11154	Bulk	X1
0.15 μ F	275V	20%	22.5mm	2222 336 13154	Tape & Reel	X1
0.15 μ F	275V	10%	22.5mm	2222 336 14154	Tape & Reel	X1
0.22 μ F	275V	20%	22.5mm	2222 336 10224	Bulk	X1
0.22 μ F	275V	20%	27.5mm	2222 336 19005	Bulk	X1
0.22 μ F	275V	10%	27.5mm	2222 336 11224	Bulk	X1
0.22 μ F	275V	20%	22.5mm	2222 336 13224	Tape & Reel	X1
0.22 μ F	275V	20%	27.5mm	2222 336 19006	Tape & Reel	X1
0.22 μ F	275V	10%	27.5mm	2222 336 14224	Tape & Reel	X1
0.33 μ F	275V	20%	27.5mm	2222 336 10334	Bulk	X1
0.33 μ F	275V	10%	27.5mm	2222 336 11334	Bulk	X1
0.33 μ F	275V	20%	27.5mm	2222 336 13334	Tape & Reel	X1
0.33 μ F	275V	10%	27.5mm	2222 336 14334	Tape & Reel	X1
0.47 μ F	275V	20%	27.5mm	2222 336 10474	Bulk	X1
0.47 μ F	275V	10%	27.5mm	2222 336 11474	Bulk	X1
0.47 μ F	275V	20%	27.5mm	2222 336 13474	Tape & Reel	X1
0.47 μ F	275V	10%	27.5mm	2222 336 14474	Tape & Reel	X1
0.68 μ F	275V	20%	27.5mm	2222 336 10684	Bulk	X1
0.68 μ F	275V	10%	27.5mm	2222 336 11684	Bulk	X1
0.68 μ F	275V	20%	27.5mm	2222 336 13684	Tape & Reel	X1
0.68 μ F	275V	10%	27.5mm	2222 336 14684	Tape & Reel	X1
1.0 μ F	275V	20%	27.5mm	2222 336 10105	Bulk	X1
1.0 μ F	275V	20%	27.5mm	2222 336 13105	Tape & Reel	X1

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	AC Volts	Tolerance	Pitch	Philips Part Number	Packaging Type	Type
0.001 μ F	275V	20%	10.0mm	2222 336 20102	Bulk	X2
0.001 μ F	275V	10%	10.0mm	2222 336 21102	Bulk	X2
0.001 μ F	275V	20%	10.0mm	2222 336 23102	Tape & Reel	X2
0.001 μ F	275V	10%	10.0mm	2222 336 24102	Tape & Reel	X2
0.0015 μ F	275V	20%	10.0mm	2222 336 20152	Bulk	X2
0.0015 μ F	275V	10%	10.0mm	2222 336 21152	Bulk	X2
0.0015 μ F	275V	20%	10.0mm	2222 336 23152	Tape & Reel	X2
0.0015 μ F	275V	10%	10.0mm	2222 336 24152	Tape & Reel	X2
0.0022 μ F	275V	20%	10.0mm	2222 336 20222	Bulk	X2
0.0022 μ F	275V	10%	10.0mm	2222 336 21222	Bulk	X2
0.0022 μ F	275V	20%	10.0mm	2222 336 23222	Tape & Reel	X2
0.0022 μ F	275V	10%	10.0mm	2222 336 24222	Tape & Reel	X2
0.0033 μ F	275V	20%	10.0mm	2222 336 20332	Bulk	X2
0.0033 μ F	275V	10%	10.0mm	2222 336 21332	Bulk	X2
0.0033 μ F	275V	20%	10.0mm	2222 336 23332	Tape & Reel	X2
0.0033 μ F	275V	10%	10.0mm	2222 336 24332	Tape & Reel	X2
0.0047 μ F	275V	20%	10.0mm	2222 336 20472	Bulk	X2
0.0047 μ F	275V	10%	10.0mm	2222 336 21472	Bulk	X2
0.0047 μ F	275V	20%	10.0mm	2222 336 23472	Tape & Reel	X2
0.0047 μ F	275V	10%	10.0mm	2222 336 24472	Tape & Reel	X2
0.0068 μ F	275V	20%	10.0mm	2222 336 20682	Bulk	X2
0.0068 μ F	275V	10%	10.0mm	2222 336 21682	Bulk	X2
0.0068 μ F	275V	20%	10.0mm	2222 336 23682	Tape & Reel	X2
0.0068 μ F	275V	10%	10.0mm	2222 336 24682	Tape & Reel	X2
0.01 μ F	275V	20%	10.0mm	2222 336 20103	Bulk	X2
0.01 μ F	275V	20%	15.0mm	2222 336 29001	Bulk	X2
0.01 μ F	275V	10%	10.0mm	2222 336 21103	Bulk	X2
0.01 μ F	275V	10%	15.0mm	2222 336 29002	Bulk	X2
0.01 μ F	275V	20%	10.0mm	2222 336 23103	Tape & Reel	X2
0.01 μ F	275V	20%	15.0mm	2222 336 29004	Tape & Reel	X2
0.01 μ F	275V	10%	10.0mm	2222 336 24103	Tape & Reel	X2
0.01 μ F	275V	10%	15.0mm	2222 336 29005	Tape & Reel	X2
0.015 μ F	275V	20%	10.0mm	2222 336 20153	Bulk	X2
0.015 μ F	275V	20%	15.0mm	2222 336 29011	Bulk	X2
0.015 μ F	275V	10%	10.0mm	2222 336 21153	Bulk	X2
0.015 μ F	275V	10%	15.0mm	2222 336 29012	Bulk	X2
0.015 μ F	275V	20%	10.0mm	2222 336 23153	Tape & Reel	X2
0.015 μ F	275V	20%	15.0mm	2222 336 29014	Tape & Reel	X2
0.015 μ F	275V	10%	10.0mm	2222 336 24153	Tape & Reel	X2
0.015 μ F	275V	10%	15.0mm	2222 336 29015	Tape & Reel	X2
0.022 μ F	275V	20%	10.0mm	2222 336 20223	Bulk	X2
0.022 μ F	275V	20%	15.0mm	2222 336 29021	Bulk	X2
0.022 μ F	275V	10%	10.0mm	2222 336 21223	Bulk	X2
0.022 μ F	275V	10%	15.0mm	2222 336 29022	Bulk	X2
0.022 μ F	275V	20%	10.0mm	2222 336 23223	Tape & Reel	X2
0.022 μ F	275V	20%	15.0mm	2222 336 29024	Tape & Reel	X2
0.022 μ F	275V	10%	10.0mm	2222 336 24223	Tape & Reel	X2
0.022 μ F	275V	10%	15.0mm	2222 336 29025	Tape & Reel	X2
0.033 μ F	275V	20%	10.0mm	2222 336 20333	Bulk	X2
0.033 μ F	275V	20%	15.0mm	2222 336 29031	Bulk	X2

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Capacitance	AC Volts	Tolerance	Pitch	Philips Part Number	Packaging Type	Type
0.033 μ F	275V	10%	10.0mm	2222 336 21333	Bulk	X2
0.033 μ F	275V	10%	15.0mm	2222 336 29032	Bulk	X2
0.033 μ F	275V	20%	10.0mm	2222 336 23333	Tape & Reel	X2
0.033 μ F	275V	20%	15.0mm	2222 336 29034	Tape & Reel	X2
0.033 μ F	275V	10%	10.0mm	2222 336 24333	Tape & Reel	X2
0.033 μ F	275V	10%	15.0mm	2222 336 29035	Tape & Reel	X2
0.047 μ F	275V	20%	15.0mm	2222 336 20473	Bulk	X2
0.047 μ F	275V	10%	15.0mm	2222 336 21473	Bulk	X2
0.047 μ F	275V	20%	15.0mm	2222 336 23473	Tape & Reel	X2
0.047 μ F	275V	10%	15.0mm	2222 336 24473	Tape & Reel	X2
0.068 μ F	275V	20%	15.0mm	2222 336 20683	Bulk	X2
0.068 μ F	275V	10%	15.0mm	2222 336 21683	Bulk	X2
0.068 μ F	275V	20%	15.0mm	2222 336 23683	Tape & Reel	X2
0.068 μ F	275V	10%	15.0mm	2222 336 24683	Tape & Reel	X2
0.1 μ F	275V	20%	15.0mm	2222 336 20104	Bulk	X2
0.1 μ F	275V	10%	15.0mm	2222 336 21104	Bulk	X2
0.1 μ F	275V	20%	15.0mm	2222 336 23104	Tape & Reel	X2
0.1 μ F	275V	10%	15.0mm	2222 336 24104	Tape & Reel	X2
0.15 μ F	275V	20%	15.0mm	2222 336 20154	Bulk	X2
0.15 μ F	275V	20%	22.5mm	2222 336 29041	Bulk	X2
0.15 μ F	275V	10%	15.0mm	2222 336 21154	Bulk	X2
0.15 μ F	275V	10%	22.5mm	2222 336 29042	Bulk	X2
0.15 μ F	275V	20%	15.0mm	2222 336 23154	Tape & Reel	X2
0.15 μ F	275V	20%	22.5mm	2222 336 29044	Tape & Reel	X2
0.15 μ F	275V	10%	15.0mm	2222 336 24154	Tape & Reel	X2
0.15 μ F	275V	10%	22.5mm	2222 336 29045	Tape & Reel	X2
0.22 μ F	275V	20%	15.0mm	2222 336 20224	Bulk	X2
0.22 μ F	275V	20%	22.5mm	2222 336 29051	Bulk	X2
0.22 μ F	275V	10%	15.0mm	2222 336 21224	Bulk	X2
0.22 μ F	275V	10%	22.5mm	2222 336 29052	Bulk	X2
0.22 μ F	275V	20%	15.0mm	2222 336 23224	Tape & Reel	X2
0.22 μ F	275V	20%	22.5mm	2222 336 29053	Tape & Reel	X2
0.22 μ F	275V	10%	15.0mm	2222 336 24224	Tape & Reel	X2
0.22 μ F	275V	10%	22.5mm	2222 336 29054	Tape & Reel	X2
0.33 μ F	275V	20%	22.5mm	2222 336 20334	Bulk	X2
0.33 μ F	275V	10%	22.5mm	2222 336 21334	Bulk	X2
0.33 μ F	275V	20%	22.5mm	2222 336 23334	Tape & Reel	X2
0.33 μ F	275V	10%	22.5mm	2222 336 24334	Tape & Reel	X2
0.47 μ F	275V	20%	22.5mm	2222 336 20474	Bulk	X2
0.47 μ F	275V	20%	27.5mm	2222 336 29055	Bulk	X2
0.47 μ F	275V	10%	22.5mm	2222 336 21474	Bulk	X2
0.47 μ F	275V	10%	27.5mm	2222 336 29056	Bulk	X2
0.47 μ F	275V	20%	22.5mm	2222 336 23474	Tape & Reel	X2
0.47 μ F	275V	20%	27.5mm	2222 336 29057	Tape & Reel	X2
0.47 μ F	275V	10%	22.5mm	2222 336 24474	Tape & Reel	X2
0.47 μ F	275V	10%	27.5mm	2222 336 29058	Tape & Reel	X2
0.68 μ F	275V	20%	27.5mm	2222 336 20684	Bulk	X2
0.68 μ F	275V	10%	27.5mm	2222 336 21684	Bulk	X2
0.68 μ F	275V	20%	27.5mm	2222 336 23684	Tape & Reel	X2
0.68 μ F	275V	10%	27.5mm	2222 336 24684	Tape & Reel	X2

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

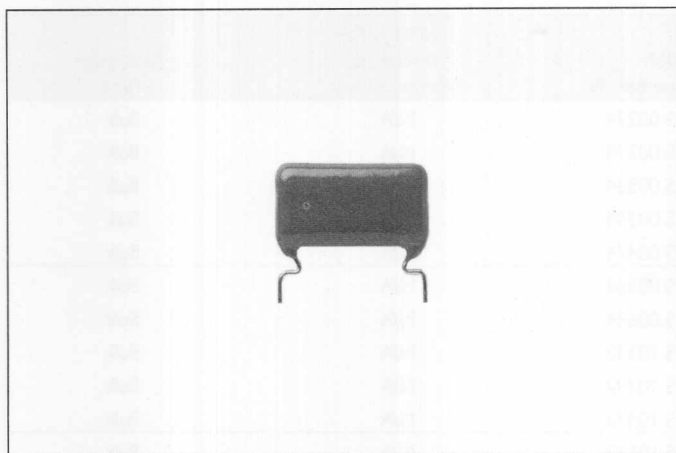
Capacitance	AC Volts	Tolerance	Pitch	Philips Part Number	Packaging Type	Type
1 μ F	275V	20%	27.5mm	2222 336 20105	Bulk	X2
1 μ F	275V	10%	27.5mm	2222 336 21105	Bulk	X2
1 μ F	275V	20%	27.5mm	2222 336 23105	Tape & Reel	X2
1 μ F	275V	10%	27.5mm	2222 336 24105	Tape & Reel	X2
1.5 μ F	275V	20%	27.5mm	2222 336 20155	Bulk	X2
1.5 μ F	275V	10%	27.5mm	2222 336 21155	Bulk	X2
1.5 μ F	275V	20%	27.5mm	2222 336 23155	Tape & Reel	X2
1.5 μ F	275V	10%	27.5mm	2222 336 24155	Tape & Reel	X2
2.2 μ F	275V	20%	27.5mm	2222 336 20225	Bulk	X2
2.2 μ F	275V	10%	27.5mm	2222 336 21225	Bulk	X2
2.2 μ F	275V	20%	27.5mm	2222 336 23225	Tape & Reel	X2
2.2 μ F	275V	10%	27.5mm	2222 336 24225	Tape & Reel	X2

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Capacitance	AC Volts	Tolerance	Pitch	Philips Part Number	Packaging Type	Type
0.001 μ F	250V	20%	10.0mm	2222 336 60102	Bulk	Y2
0.001 μ F	250V	10%	10.0mm	2222 336 61102	Bulk	Y2
0.001 μ F	250V	20%	10.0mm	2222 336 63102	Tape & Reel	Y2
0.001 μ F	250V	10%	10.0mm	2222 336 64102	Tape & Reel	Y2
0.0015 μ F	250V	20%	10.0mm	2222 336 60152	Bulk	Y2
0.0015 μ F	250V	10%	10.0mm	2222 336 61152	Bulk	Y2
0.0015 μ F	250V	20%	10.0mm	2222 336 63152	Tape & Reel	Y2
0.0015 μ F	250V	10%	10.0mm	2222 336 64152	Tape & Reel	Y2
0.0022 μ F	250V	20%	10.0mm	2222 336 60222	Bulk	Y2
0.0022 μ F	250V	10%	10.0mm	2222 336 61222	Bulk	Y2
0.0022 μ F	250V	20%	10.0mm	2222 336 63222	Tape & Reel	Y2
0.0022 μ F	250V	10%	10.0mm	2222 336 64222	Tape & Reel	Y2
0.0033 μ F	250V	20%	10.0mm	2222 336 60332	Bulk	Y2
0.0033 μ F	250V	10%	10.0mm	2222 336 61332	Bulk	Y2
0.0033 μ F	250V	20%	10.0mm	2222 336 63332	Tape & Reel	Y2
0.0033 μ F	250V	10%	10.0mm	2222 336 64332	Tape & Reel	Y2
0.0047 μ F	250V	20%	10.0mm	2222 336 60472	Bulk	Y2
0.0047 μ F	250V	10%	10.0mm	2222 336 61472	Bulk	Y2
0.0047 μ F	250V	20%	10.0mm	2222 336 63472	Tape & Reel	Y2
0.0047 μ F	250V	10%	10.0mm	2222 336 64472	Tape & Reel	Y2
0.0068 μ F	250V	20%	10.0mm	2222 336 60682	Bulk	Y2
0.0068 μ F	250V	20%	15.0mm	2222 336 69005	Bulk	Y2
0.0068 μ F	250V	10%	15.0mm	2222 336 61682	Bulk	Y2
0.0068 μ F	250V	20%	10.0mm	2222 336 63682	Tape & Reel	Y2
0.0068 μ F	250V	20%	15.0mm	2222 336 69006	Tape & Reel	Y2
0.0068 μ F	250V	10%	15.0mm	2222 336 64682	Tape & Reel	Y2
0.01 μ F	250V	20%	15.0mm	2222 336 60103	Bulk	Y2
0.01 μ F	250V	10%	15.0mm	2222 336 61103	Bulk	Y2
0.01 μ F	250V	20%	15.0mm	2222 336 63103	Tape & Reel	Y2
0.01 μ F	250V	10%	15.0mm	2222 336 64103	Tape & Reel	Y2
0.015 μ F	250V	20%	15.0mm	2222 336 60153	Bulk	Y2
0.015 μ F	250V	10%	15.0mm	2222 336 61153	Bulk	Y2
0.015 μ F	250V	20%	15.0mm	2222 336 63153	Tape & Reel	Y2
0.015 μ F	250V	10%	15.0mm	2222 336 64153	Tape & Reel	Y2
0.022 μ F	250V	20%	15.0mm	2222 336 60223	Bulk	Y2
0.022 μ F	250V	10%	15.0mm	2222 336 61223	Bulk	Y2
0.022 μ F	250V	20%	15.0mm	2222 336 63223	Tape & Reel	Y2
0.022 μ F	250V	10%	15.0mm	2222 336 64223	Tape & Reel	Y2
0.033 μ F	250V	20%	15.0mm	2222 336 60333	Bulk	Y2
0.033 μ F	250V	10%	15.0mm	2222 336 61333	Bulk	Y2
0.033 μ F	250V	20%	15.0mm	2222 336 63333	Tape & Reel	Y2
0.033 μ F	250V	10%	15.0mm	2222 336 64333	Tape & Reel	Y2
0.047 μ F	250V	20%	15.0mm	2222 336 60473	Bulk	Y2
0.047 μ F	250V	10%	15.0mm	2222 336 61473	Bulk	Y2
0.047 μ F	250V	20%	15.0mm	2222 336 63473	Tape & Reel	Y2
0.047 μ F	250V	10%	15.0mm	2222 336 64473	Tape & Reel	Y2

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.



Series 2222 375 AC & Pulse Film Capacitors (Radial Epoxy Lacquered)

Features

- 10.0 mm to 27.5 mm lead pitch
- Bulk, tape and reel (restrictions apply)

Marking (Typical)

Capacitors are marked with following information:

Cap Code
Cap Tolerance
Rated Peak to Peak Voltage
Mfg Type (375)
Code for Dielectric Material
Mfg Logo
Yr & Mo (only for pitch ≥ 22.5 mm)

General

Cap Range	100 pF to 270 nF for KP/MKP 3.3 to 150 nF for KP/MMKP
Cap Tolerance	$\pm 5\%$, $\pm 3.5\%$ (on request)
KP/MMKP:	
Rated Voltage (DC)	630V, 1000V, 1600V, 2000V
Rated Voltage (AC)	300V, 400V, 500V, 600V
Rated Peak to Peak	850V, 1100V, 1400V, 1700V
KP/MKP:	
Rated Voltage (DC)	400V, 630V, 1000V, 1600V, 2000V
Rated Voltage (AC)	275V, 300V, 400V, 500V, 600V
Rated Peak to Peak	800V, 850V, 1100V, 1400V, 1700V
Rated Temperature	85°C
Max Application Temperature	100°C
Related Spec	IEC 384-17
Performance Grade	
for C > 5.6 nF	Grade 1 (Long Life)
For C \leq 5.6 nF	Grade 2 (General Purpose)
Stability Grade	Grade 2
Climatic Category:	55/100/56

Applications

- Where high currents and steep pulses occur
- Deflection circuits in television receivers

*** Note: the application note conditions must be met before use of these capacitors in an actual application. See 375 section of the PA05 Handbook.**

2222	375	0	0	274
Capacitor	Type	DC voltage	Tolerance & Lead Length	Capacitance
		0 = KP/MKP 400V 1 = KP/MKP 630V 2 = KP/MKP 1000V 3 = KP/MKP 1600V 4 = KP/MKP 2000V 5 = KP/MMKP 630V 6 = KP/MMKP 1000V 7 = KP/MMKP 1600V 8 = KP/MMKP 2000V	0 = 5%, 3.5 mm 1 = 3.5%, 3.5 mm 4 = 5%, 5 mm 5 = 3.5%, 5 mm	

Film Capacitor A C and Pulse

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.22 μ F	400V	5%	22.5mm	2222 375 00224	N/A	Bulk
0.27 μ F	400V	5%	27.5mm	2222 375 00274	N/A	Bulk
0.33 μ F	400V	5%	27.5mm	2222 375 00334	N/A	Bulk
0.39 μ F	400V	5%	27.5mm	2222 375 00394	N/A	Bulk
0.47 μ F	400V	5%	27.5mm	2222 375 00474	N/A	Bulk
0.56 μ F	400V	5%	27.5mm	2222 375 00564	N/A	Bulk
0.68 μ F	400V	5%	27.5mm	2222 375 00684	N/A	Bulk
0.0033 μ F	630V	5%	15.0mm	2222 375 10332	N/A	Bulk
0.0039 μ F	630V	5%	15.0mm	2222 375 10392	N/A	Bulk
0.0047 μ F	630V	5%	15.0mm	2222 375 10472	N/A	Bulk
0.0056 μ F	630V	5%	15.0mm	2222 375 10562	N/A	Bulk
0.0068 μ F	630V	5%	15.0mm	2222 375 10682	N/A	Bulk
0.0082 μ F	630V	5%	15.0mm	2222 375 10822	N/A	Bulk
0.010 μ F	630V	5%	15.0mm	2222 375 10103	N/A	Bulk
0.012 μ F	630V	5%	15.0mm	2222 375 10123	N/A	Bulk
0.015 μ F	630V	5%	15.0mm	2222 375 10153	N/A	Bulk
0.018 μ F	630V	5%	15.0mm	2222 375 10183	N/A	Bulk
0.022 μ F	630V	5%	15.0mm	2222 375 10223	N/A	Bulk
0.027 μ F	630V	5%	15.0mm	2222 375 10273	N/A	Bulk
0.033 μ F	630V	5%	15.0mm	2222 375 10333	N/A	Bulk
0.039 μ F	630V	5%	22.5mm	2222 375 10393	N/A	Bulk
0.047 μ F	630V	5%	22.5mm	2222 375 10473	N/A	Bulk
0.056 μ F	630V	5%	22.5mm	2222 375 10563	N/A	Bulk
0.068 μ F	630V	5%	22.5mm	2222 375 10683	N/A	Bulk
0.082 μ F	630V	5%	22.5mm	2222 375 10823	N/A	Bulk
0.10 μ F	630V	5%	22.5mm	2222 375 10104	N/A	Bulk
0.12 μ F	630V	5%	22.5mm	2222 375 10124	N/A	Bulk
0.15 μ F	630V	5%	27.5mm	2222 375 10154	N/A	Bulk
0.18 μ F	630V	5%	27.5mm	2222 375 10184	N/A	Bulk
0.22 μ F	630V	5%	27.5mm	2222 375 10224	N/A	Bulk
0.27 μ F	630V	5%	27.5mm	2222 375 10274	N/A	Bulk
0.0018 μ F	1000V	5%	15.0mm	2222 375 20182	N/A	Bulk
0.0022 μ F	1000V	5%	15.0mm	2222 375 20222	N/A	Bulk
0.0027 μ F	1000V	5%	15.0mm	2222 375 20272	N/A	Bulk
0.0033 μ F	1000V	5%	15.0mm	2222 375 20332	N/A	Bulk
0.0039 μ F	1000V	5%	15.0mm	2222 375 20392	N/A	Bulk
0.0047 μ F	1000V	5%	15.0mm	2222 375 20472	N/A	Bulk
0.0056 μ F	1000V	5%	15.0mm	2222 375 20562	N/A	Bulk
0.0068 μ F	1000V	5%	15.0mm	2222 375 20682	N/A	Bulk
0.0082 μ F	1000V	5%	15.0mm	2222 375 20822	N/A	Bulk
0.010 μ F	1000V	5%	15.0mm	2222 375 20103	N/A	Bulk
0.012 μ F	1000V	5%	15.0mm	2222 375 20123	N/A	Bulk
0.015 μ F	1000V	5%	15.0mm	2222 375 20153	N/A	Bulk
0.018 μ F	1000V	5%	22.5mm	2222 375 20183	N/A	Bulk
0.022 μ F	1000V	5%	22.5mm	2222 375 20223	N/A	Bulk
0.027 μ F	1000V	5%	22.5mm	2222 375 20273	N/A	Bulk
0.033 μ F	1000V	5%	22.5mm	2222 375 20333	N/A	Bulk
0.039 μ F	1000V	5%	22.5mm	2222 375 20393	N/A	Bulk
0.047 μ F	1000V	5%	27.5mm	2222 375 20473	N/A	Bulk
0.056 μ F	1000V	5%	27.5mm	2222 375 20563	N/A	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

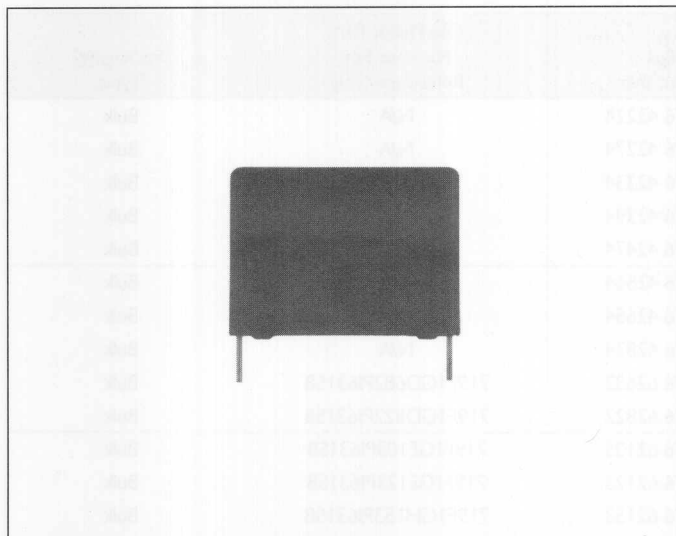
Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.068 μ F	1000V	5%	27.5mm	2222 375 20683	N/A	Bulk
0.082 μ F	1000V	5%	27.5mm	2222 375 20823	N/A	Bulk
0.10 μ F	1000V	5%	27.5mm	2222 375 20104	N/A	Bulk
0.12 μ F	1000V	5%	27.5mm	2222 375 20124	N/A	Bulk
0.15 μ F	1000V	5%	27.5mm	2222 375 20154	N/A	Bulk
0.00068 μ F	1600V	5%	15.0mm	2222 375 30681	N/A	Bulk
0.00082 μ F	1600V	5%	15.0mm	2222 375 30821	N/A	Bulk
0.0010 μ F	1600V	5%	15.0mm	2222 375 30102	N/A	Bulk
0.0012 μ F	1600V	5%	15.0mm	2222 375 30122	N/A	Bulk
0.0015 μ F	1600V	5%	15.0mm	2222 375 30152	N/A	Bulk
0.0018 μ F	1600V	5%	15.0mm	2222 375 30182	N/A	Bulk
0.0022 μ F	1600V	5%	15.0mm	2222 375 30222	N/A	Bulk
0.0027 μ F	1600V	5%	15.0mm	2222 375 30272	N/A	Bulk
0.0033 μ F	1600V	5%	15.0mm	2222 375 30332	N/A	Bulk
0.0039 μ F	1600V	5%	15.0mm	2222 375 30392	N/A	Bulk
0.0047 μ F	1600V	5%	22.5mm	2222 375 30472	N/A	Bulk
0.0056 μ F	1600V	5%	22.5mm	2222 375 30562	N/A	Bulk
0.0062 μ F	1600V	5%	22.5mm	2222 375 30622	N/A	Bulk
0.0068 μ F	1600V	5%	22.5mm	2222 375 30682	N/A	Bulk
0.0075 μ F	1600V	5%	22.5mm	2222 375 30752	N/A	Bulk
0.0082 μ F	1600V	5%	22.5mm	2222 375 30822	N/A	Bulk
0.0091 μ F	1600V	5%	22.5mm	2222 375 30912	N/A	Bulk
0.010 μ F	1600V	5%	22.5mm	2222 375 30103	N/A	Bulk
0.011 μ F	1600V	5%	22.5mm	2222 375 30113	N/A	Bulk
0.012 μ F	1600V	5%	22.5mm	2222 375 30123	N/A	Bulk
0.013 μ F	1600V	5%	22.5mm	2222 375 30133	N/A	Bulk
0.015 μ F	1600V	5%	22.5mm	2222 375 30153	N/A	Bulk
0.018 μ F	1600V	5%	22.5mm	2222 375 30183	N/A	Bulk
0.022 μ F	1600V	5%	27.5mm	2222 375 30223	N/A	Bulk
0.027 μ F	1600V	5%	27.5mm	2222 375 30273	N/A	Bulk
0.033 μ F	1600V	5%	27.5mm	2222 375 30333	N/A	Bulk
0.039 μ F	1600V	5%	27.5mm	2222 375 30393	N/A	Bulk
0.0010 μ F	2000V	5%	15.0mm	2222 375 40102	N/A	Bulk
0.0012 μ F	2000V	5%	15.0mm	2222 375 40122	N/A	Bulk
0.0015 μ F	2000V	5%	15.0mm	2222 375 40152	N/A	Bulk
0.0018 μ F	2000V	5%	15.0mm	2222 375 40182	N/A	Bulk
0.0022 μ F	2000V	5%	15.0mm	2222 375 40222	N/A	Bulk
0.0027 μ F	2000V	5%	15.0mm	2222 375 40272	N/A	Bulk
0.0033 μ F	2000V	5%	22.5mm	2222 375 40332	N/A	Bulk
0.0036 μ F	2000V	5%	22.5mm	2222 375 40362	N/A	Bulk
0.0039 μ F	2000V	5%	22.5mm	2222 375 40392	N/A	Bulk
0.0043 μ F	2000V	5%	22.5mm	2222 375 40432	N/A	Bulk
0.0047 μ F	2000V	5%	22.5mm	2222 375 40472	N/A	Bulk
0.0051 μ F	2000V	5%	22.5mm	2222 375 40512	N/A	Bulk
0.0056 μ F	2000V	5%	22.5mm	2222 375 40562	N/A	Bulk
0.0062 μ F	2000V	5%	22.5mm	2222 375 40622	N/A	Bulk
0.0068 μ F	2000V	5%	22.5mm	2222 375 40682	N/A	Bulk
0.0075 μ F	2000V	5%	22.5mm	2222 375 40752	N/A	Bulk
0.0082 μ F	2000V	5%	22.5mm	2222 375 40822	N/A	Bulk
0.0091 μ F	2000V	5%	22.5mm	2222 375 40912	N/A	Bulk

Film Capacitor A C and Pulse

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.010 μ F	2000V	5%	22.5mm	2222 375 40103	N/A	Bulk
0.011 μ F	2000V	5%	27.5mm	2222 375 40113	N/A	Bulk
0.012 μ F	2000V	5%	27.5mm	2222 375 40123	N/A	Bulk
0.015 μ F	2000V	5%	27.5mm	2222 375 40153	N/A	Bulk
0.018 μ F	2000V	5%	27.5mm	2222 375 40183	N/A	Bulk
0.022 μ F	2000V	5%	27.5mm	2222 375 40223	N/A	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.



Series 2222 376 AC & Pulse Film Capacitor (Radial Potted Box)

Features

- 15.0 mm to 27.5 mm lead pitch
- Bulk, tape and reel (restrictions apply)

Marking (Typical)

Capacitors are marked on the top and or the side with the following:

Cap Code
Cap Tolerance
Rated DC Voltage
Mfg Type (376)
Code for Dielectric (KP/MMKP)
Mfg Emblem
Year & Week of Mfg
Code for Factory of Origin

General

Cap Range 0.001 to 0.082 μ F
Cap Tolerance $\pm 5\%$, $\pm 3.5\%$ on request
Rated Voltage (DC) 250V, 630V, 1000V, 1600V, 2000V
Rated Voltage (AC) 125V, 300V, 400V, 500V, 600V
Rated Temperature 85°C
Reference Spec IEC 384-13 for 250 V version
IEC 384-17 for 630V to 2000V version

630 V to 2000 V nF
Performance Grade
C > 4.7 NF
C \leq 4.7 NF
Stability Grade 630V-2000V
250 V Stability Class
Climatic Category

Grade 1 (Long Life)
Grade 2 (General Purpose)
Grade 2
Class 3
55/100/56

Applications

- Where high currents and steep pulses occur.
- Deflection circuits in television receivers.

*** Note:** the application note conditions must be met before use of these capacitors in an actual application. See 376 Section of the PA05 Handbook.

2222	376	4	2	224
Capacitor	Type	Voltage	Packaging & Tolerance, Lead Length	Capacitance
		4 = 250V 6 = 630V 7 = 1000V 8 = 1600V 9 = 2000V	2 = 5%, Bulk, 5 mm 3 = 3.5%, Bulk, 5 mm 5 = 5%, Tape & Reel 6 = 3.5%, Tape & Reel 8 = 5%, Bulk, 3.2 mm 9 = 3.5%, Bulk, 3.2 mm	

Film Capacitor A C and Pulse

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.22 μ F	250V	5%	27.5mm	2222 376 42224	N/A	Bulk
0.27 μ F	250V	5%	27.5mm	2222 376 42274	N/A	Bulk
0.33 μ F	250V	5%	27.5mm	2222 376 42334	N/A	Bulk
0.39 μ F	250V	5%	27.5mm	2222 376 42394	N/A	Bulk
0.47 μ F	250V	5%	27.5mm	2222 376 42474	N/A	Bulk
0.56 μ F	250V	5%	27.5mm	2222 376 42564	N/A	Bulk
0.68 μ F	250V	5%	27.5mm	2222 376 42684	N/A	Bulk
0.82 μ F	250V	5%	27.5mm	2222 376 42824	N/A	Bulk
0.0068 μ F	630V	5%	15.0mm	2222 376 62682	719F1GD682PJ631SB	Bulk
0.0082 μ F	630V	5%	15.0mm	2222 376 62822	719F1GD822PJ631SB	Bulk
0.010 μ F	630V	5%	15.0mm	2222 376 62103	719F1GE103PJ631SB	Bulk
0.012 μ F	630V	5%	15.0mm	2222 376 62123	719F1GE123PJ631SB	Bulk
0.015 μ F	630V	5%	15.0mm	2222 376 62153	719F1GH153PJ631SB	Bulk
0.018 μ F	630V	5%	15.0mm	2222 376 62183	719F1GH183PJ631SB	Bulk
0.022 μ F	630V	5%	15.0mm	2222 376 62223	719F1GG223PJ631SB	Bulk
0.027 μ F	630V	5%	22.5mm	2222 376 62273	719F1MF273PJ631SD	Bulk
0.033 μ F	630V	5%	22.5mm	2222 376 62333	719F1MG333PJ631SD	Bulk
0.039 μ F	630V	5%	22.5mm	2222 376 62393	719F1MG393PJ631SD	Bulk
0.047 μ F	630V	5%	22.5mm	2222 376 62473	719F1MK473PJ631SD	Bulk
0.056 μ F	630V	5%	22.5mm	2222 376 62563	719F1MK563PJ631SD	Bulk
0.068 μ F	630V	5%	27.5mm	2222 376 62683	719F1RL683PJ631SE	Bulk
0.082 μ F	630V	5%	27.5mm	2222 376 62823	719F1RP823PJ631SE	Bulk
0.10 μ F	630V	5%	27.5mm	2222 376 62104	719F1RP104PJ631SE	Bulk
0.12 μ F	630V	5%	27.5mm	2222 376 62124	719F1RR124PJ631SE	Bulk
0.15 μ F	630V	5%	27.5mm	2222 376 62154	719F1RR154PJ631SE	Bulk
0.16 μ F	630V	5%	27.5mm	2222 376 62164	719F1RR164PJ631SE	Bulk
0.18 μ F	630V	5%	27.5mm	2222 376 62184	719F1RG184PJ631SE	Bulk
0.22 μ F	630V	5%	27.5mm	2222 376 62224	719F1RH224PJ631SE	Bulk
0.27 μ F	630V	5%	27.5mm	2222 376 62274	719F1RH274PJ631SE	Bulk
0.0047 μ F	1000V	5%	15.0mm	2222 376 72472	719F1GD472PJ102SB	Bulk
0.0056 μ F	1000V	5%	15.0mm	2222 376 72562	719F1GD562PJ102SB	Bulk
0.0068 μ F	1000V	5%	15.0mm	2222 376 72682	719F1GD682PJ102SB	Bulk
0.0082 μ F	1000V	5%	15.0mm	2222 376 72822	719F1GD822PJ102SB	Bulk
0.010 μ F	1000V	5%	15.0mm	2222 376 72103	719F1GH103PJ102SB	Bulk
0.012 μ F	1000V	5%	15.0mm	2222 376 72123	719F1GG123PJ102SB	Bulk
0.015 μ F	1000V	5%	22.5mm	2222 376 72153	719F1MF153PJ102SD	Bulk
0.018 μ F	1000V	5%	22.5mm	2222 376 72183	719F1MF183PJ102SD	Bulk
0.022 μ F	1000V	5%	22.5mm	2222 376 72223	719F1MK223PJ102SD	Bulk
0.027 μ F	1000V	5%	22.5mm	2222 376 72273	719F1MK273PJ102SD	Bulk
0.033 μ F	1000V	5%	22.5mm	2222 376 72333	719F1MK333PJ102SD	Bulk
0.039 μ F	1000V	5%	22.5mm	2222 376 72393	719F1MM393PJ102SD	Bulk
0.047 μ F	1000V	5%	27.5mm	2222 376 72473	719F1RL473PJ102SE	Bulk
0.056 μ F	1000V	5%	27.5mm	2222 376 72563	719F1RP563PJ102SE	Bulk
0.068 μ F	1000V	5%	27.5mm	2222 376 72683	719F1RP683PJ102SE	Bulk
0.082 μ F	1000V	5%	27.5mm	2222 376 72823	719F1RR823PJ102SE	Bulk
0.10 μ F	1000V	5%	27.5mm	2222 376 72104	719F1RR104PJ102SE	Bulk
0.12 μ F	1000V	5%	27.5mm	2222 376 72124	719F1RG124PJ102SE	Bulk
0.15 μ F	1000V	5%	27.5mm	2222 376 72154	719F1RG154PJ102SE	Bulk
0.18 μ F	1000V	5%	27.5mm	2222 376 72184	719F1RH184PJ102SE	Bulk
0.0022 μ F	1600V	5%	15.0mm	2222 376 82222	719F1GE222PJ162SB	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

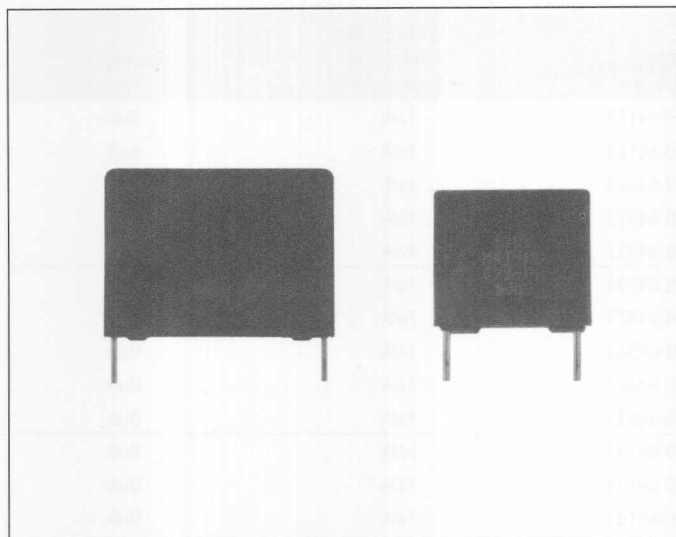
Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.0027 μ F	1600V	5%	15.0mm	2222 376 82272	719F1GH272PJ162SB	Bulk
0.0033 μ F	1600V	5%	15.0mm	2222 376 82332	719F1GH332PJ162SB	Bulk
0.0039 μ F	1600V	5%	15.0mm	2222 376 82392	719F1GG392PJ162SB	Bulk
0.0047 μ F	1600V	5%	15.0mm	2222 376 82472	719F1GG472PJ162SB	Bulk
0.0056 μ F	1600V	5%	22.5mm	2222 376 82562	719F1MF562PJ162SD	Bulk
0.0062 μ F	1600V	5%	22.5mm	2222 376 82622	719F1MF622PJ162SD	Bulk
0.0068 μ F	1600V	5%	22.5mm	2222 376 82682	719F1MF682PJ162SD	Bulk
0.0075 μ F	1600V	5%	22.5mm	2222 376 82752	719F1MG752PJ162SD	Bulk
0.0082 μ F	1600V	5%	22.5mm	2222 376 82822	719F1MG822PJ162SD	Bulk
0.0091 μ F	1600V	5%	22.5mm	2222 376 82912	719F1MG912PJ162SD	Bulk
0.010 μ F	1600V	5%	22.5mm	2222 376 82103	719F1MK103PJ162SD	Bulk
0.011 μ F	1600V	5%	22.5mm	2222 376 82113	719F1MK113PJ162SD	Bulk
0.012 μ F	1600V	5%	22.5mm	2222 376 82123	719F1MK123PJ162SD	Bulk
0.013 μ F	1600V	5%	22.5mm	2222 376 82133	719F1MK133PJ162SD	Bulk
0.015 μ F	1600V	5%	22.5mm	2222 376 82153	719F1MM153PJ162SD	Bulk
0.018 μ F	1600V	5%	27.5mm	2222 376 82183	719F1RP183PJ162SE	Bulk
0.022 μ F	1600V	5%	27.5mm	2222 376 82223	719F1RP223PJ162SE	Bulk
0.027 μ F	1600V	5%	27.5mm	2222 376 82273	719F1RR273PJ162SE	Bulk
0.033 μ F	1600V	5%	27.5mm	2222 376 82333	719F1RR333PJ162SE	Bulk
0.039 μ F	1600V	5%	27.5mm	2222 376 82393	719F1RG393PJ162SE	Bulk
0.047 μ F	1600V	5%	27.5mm	2222 376 82473	719F1RG473PJ162SE	Bulk
0.056 μ F	1600V	5%	27.5mm	2222 376 82563	719F1RH563PJ162SE	Bulk
0.0010 μ F	2000V	5%	15.0mm	2222 376 92102	719F1GD102PJ202SB	Bulk
0.0012 μ F	2000V	5%	15.0mm	2222 376 92122	719F1GD122PJ202SB	Bulk
0.0015 μ F	2000V	5%	15.0mm	2222 376 92152	719F1GD152PJ202SB	Bulk
0.0018 μ F	2000V	5%	15.0mm	2222 376 92182	719F1GH182PJ202SB	Bulk
0.0020 μ F	2000V	5%	15.0mm	2222 376 92202	719F1GH202PJ202SB	Bulk
0.0022 μ F	2000V	5%	15.0mm	2222 376 92222	719F1GG222PJ202SB	Bulk
0.0024 μ F	2000V	5%	15.0mm	2222 376 92242	719F1GG242PJ202SB	Bulk
0.0027 μ F	2000V	5%	15.0mm	2222 376 92272	719F1GG272PJ202SB	Bulk
0.0030 μ F	2000V	5%	15.0mm	2222 376 92302	719F1GG302PJ202SB	Bulk
0.0033 μ F	2000V	5%	22.5mm	2222 376 92332	719F1MF332PJ202SD	Bulk
0.0036 μ F	2000V	5%	22.5mm	2222 376 92362	719F1MF362PJ202SD	Bulk
0.0039 μ F	2000V	5%	22.5mm	2222 376 92392	719F1MF392PJ202SD	Bulk
0.0043 μ F	2000V	5%	22.5mm	2222 376 92432	719F1MG432PJ202SD	Bulk
0.0047 μ F	2000V	5%	22.5mm	2222 376 92472	719F1MG472PJ202SD	Bulk
0.0051 μ F	2000V	5%	22.5mm	2222 376 92512	719F1MG512PJ202SD	Bulk
0.0056 μ F	2000V	5%	22.5mm	2222 376 92562	719F1MK562PJ202SD	Bulk
0.0062 μ F	2000V	5%	22.5mm	2222 376 92622	719F1MK622PJ202SD	Bulk
0.0068 μ F	2000V	5%	22.5mm	2222 376 92682	719F1MK682PJ202SD	Bulk
0.0075 μ F	2000V	5%	22.5mm	2222 376 92752	719F1MK752PJ202SD	Bulk
0.0082 μ F	2000V	5%	22.5mm	2222 376 92822	719F1MK822PJ202SD	Bulk
0.0091 μ F	2000V	5%	22.5mm	2222 376 92912	719F1MM912PJ202SD	Bulk
0.010 μ F	2000V	5%	22.5mm	2222 376 92103	719F1MM103PJ202SD	Bulk
0.011 μ F	2000V	5%	27.5mm	2222 376 92113	719F1RP113PJ202SE	Bulk
0.012 μ F	2000V	5%	27.5mm	2222 376 92123	719F1RP123PJ202SE	Bulk
0.015 μ F	2000V	5%	27.5mm	2222 376 92153	719F1RP153PJ202SE	Bulk
0.018 μ F	2000V	5%	27.5mm	2222 376 92183	719F1RR183PJ202SE	Bulk
0.020 μ F	2000V	5%	27.5mm	2222 376 92203	719F1RR203PJ202SE	Bulk
0.022 μ F	2000V	5%	27.5mm	2222 376 92223	719F1RR223PJ202SE	Bulk

Film Capacitor A C and Pulse

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.024 μ F	2000V	5%	27.5mm	2222 376 92243	719F1RG243PJ202SE	Bulk
0.027 μ F	2000V	5%	27.5mm	2222 376 92273	719F1RG273PJ202SE	Bulk
0.030 μ F	2000V	5%	27.5mm	2222 376 92303	719F1RH303PJ202SE	Bulk
0.033 μ F	2000V	5%	27.5mm	2222 376 92333	719F1RH333PJ202SE	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.



Series 2222 378 AC & Pulse Film Capacitor (Radial Potted Box)

Features

- 15 mm to 27.5 mm lead pitch
- Bulk, tape and reel (restrictions apply)

Marking (Typical)

Capacitors are marked by laser on top and or on side with the following:

Cap Code
Cap Tolerance
Rated DC Voltage
Code for Dielectric Material (MKP)
Code for Factory of Origin (HQ)
Mfg Type (378)
Mfg Name
Year & Week of Mfg

General

Cap Range	0.001 to 3.3 μ F
Cap Tolerance	$\pm 5\%$
Rated Voltage (DC)	250V, 400V, 630V, 1000V, 1600V, 2000V, 2500V
Rated Voltage (AC)	160V, 200V, 300V, 400V, 500V, 600V, 675V
Rated Peak to Peak	450V, 560V, 850V, 1130V, 1400V, 1700V, 1900V
Rated Temperature (DC)	85°C
Rated Temperature (AC)	70°C
Max Application Temp	85°C
Reference Spec	IEC 384-17
Performance Grade	Grade 1 (Long Life)
Stability Grade	
Pitch 15 mm	Grade 2
Pitch 22.5 & 27.5 mm	Grade 1
Climatic Category	55/085/56

Applications

- Where steep pulses occur
- Motor control circuits
- S-correction.

* Note: the application note conditions must be met before use of these capacitors in an actual application. See 378 section of PA05 Handbook.

2222	378	6	4	153
Capacitor	Type	Voltage	Packaging & Lead Length	Capacitance
		4 = 250V	2 = Bulk, 5 mm	
		5 = 400V	4 = Bulk, 3.5 mm	
		6 = 630V	5 = Tape & Reel	
		7 = 1000V	8 = Bulk, 3.2 mm	
		8 = 1600V		
		9 = 2000V		
		0 = 2500V		

Film Capacitor A C and Pulse

PHILIPS

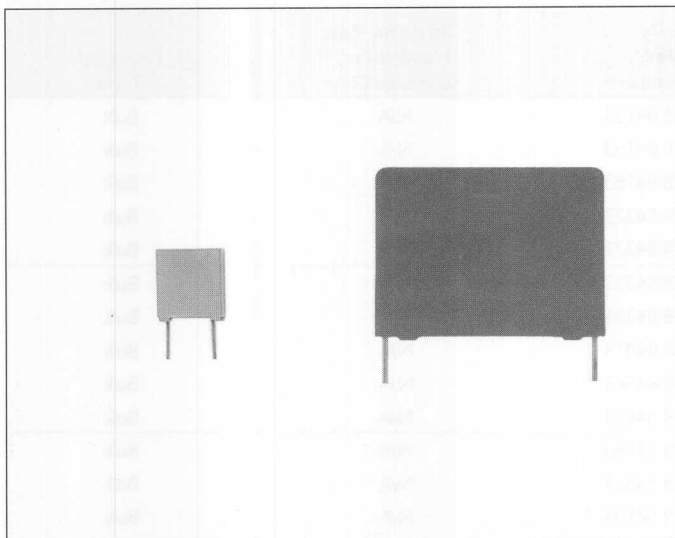
Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.015 μ F	630V	5%	15.0mm	2222 378 64153	N/A	Bulk
0.018 μ F	630V	5%	15.0mm	2222 378 64183	N/A	Bulk
0.022 μ F	630V	5%	15.0mm	2222 378 64223	N/A	Bulk
0.027 μ F	630V	5%	15.0mm	2222 378 64273	N/A	Bulk
0.033 μ F	630V	5%	15.0mm	2222 378 64333	N/A	Bulk
0.039 μ F	630V	5%	15.0mm	2222 378 64393	N/A	Bulk
0.047 μ F	630V	5%	15.0mm	2222 378 64473	N/A	Bulk
0.056 μ F	630V	5%	22.5mm	2222 378 64563	N/A	Bulk
0.068 μ F	630V	5%	22.5mm	2222 378 64683	N/A	Bulk
0.082 μ F	630V	5%	22.5mm	2222 378 64823	N/A	Bulk
0.12 μ F	630V	5%	22.5mm	2222 378 64124	N/A	Bulk
0.15 μ F	630V	5%	22.5mm	2222 378 64154	N/A	Bulk
0.18 μ F	630V	5%	22.5mm	2222 378 64184	N/A	Bulk
0.22 μ F	630V	5%	27.5mm	2222 378 64224	N/A	Bulk
0.27 μ F	630V	5%	27.5mm	2222 378 64274	N/A	Bulk
0.33 μ F	630V	5%	27.5mm	2222 378 64334	N/A	Bulk
0.39 μ F	630V	5%	27.5mm	2222 378 64394	N/A	Bulk
0.47 μ F	630V	5%	27.5mm	2222 378 64474	N/A	Bulk
0.56 μ F	630V	5%	27.5mm	2222 378 64564	N/A	Bulk
0.68 μ F	630V	5%	27.5mm	2222 378 64684	N/A	Bulk
0.0033 μ F	1000V	5%	15.0mm	2222 378 74332	N/A	Bulk
0.0039 μ F	1000V	5%	15.0mm	2222 378 74392	N/A	Bulk
0.0047 μ F	1000V	5%	15.0mm	2222 378 74472	N/A	Bulk
0.0056 μ F	1000V	5%	15.0mm	2222 378 74562	N/A	Bulk
0.0068 μ F	1000V	5%	15.0mm	2222 378 74682	N/A	Bulk
0.0082 μ F	1000V	5%	15.0mm	2222 378 74822	N/A	Bulk
0.010 μ F	1000V	5%	15.0mm	2222 378 74103	N/A	Bulk
0.012 μ F	1000V	5%	22.5mm	2222 378 74123	N/A	Bulk
0.013 μ F	1000V	5%	22.5mm	2222 378 74133	N/A	Bulk
0.015 μ F	1000V	5%	22.5mm	2222 378 74153	N/A	Bulk
0.018 μ F	1000V	5%	22.5mm	2222 378 74183	N/A	Bulk
0.022 μ F	1000V	5%	22.5mm	2222 378 74223	N/A	Bulk
0.024 μ F	1000V	5%	22.5mm	2222 378 74243	N/A	Bulk
0.027 μ F	1000V	5%	22.5mm	2222 378 74273	N/A	Bulk
0.033 μ F	1000V	5%	22.5mm	2222 378 74333	N/A	Bulk
0.039 μ F	1000V	5%	22.5mm	2222 378 74393	N/A	Bulk
0.047 μ F	1000V	5%	22.5mm	2222 378 74473	N/A	Bulk
0.056 μ F	1000V	5%	27.5mm	2222 378 74563	N/A	Bulk
0.068 μ F	1000V	5%	27.5mm	2222 378 74683	N/A	Bulk
0.082 μ F	1000V	5%	27.5mm	2222 378 74823	N/A	Bulk
0.10 μ F	1000V	5%	27.5mm	2222 378 74104	N/A	Bulk
0.12 μ F	1000V	5%	27.5mm	2222 378 74124	N/A	Bulk
0.13 μ F	1000V	5%	27.5mm	2222 378 74134	N/A	Bulk
0.15 μ F	1000V	5%	27.5mm	2222 378 74154	N/A	Bulk
0.18 μ F	1000V	5%	27.5mm	2222 378 74184	N/A	Bulk
0.22 μ F	1000V	5%	27.5mm	2222 378 74224	N/A	Bulk
0.0056 μ F	1600V	5%	22.5mm	2222 378 84562	N/A	Bulk
0.0068 μ F	1600V	5%	22.5mm	2222 378 84682	N/A	Bulk
0.0082 μ F	1600V	5%	22.5mm	2222 378 84822	N/A	Bulk
0.010 μ F	1600V	5%	22.5mm	2222 378 84103	N/A	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.012 μ F	1600V	5%	22.5mm	2222 378 84123	N/A	Bulk
0.015 μ F	1600V	5%	22.5mm	2222 378 84153	N/A	Bulk
0.018 μ F	1600V	5%	22.5mm	2222 378 84183	N/A	Bulk
0.022 μ F	1600V	5%	22.5mm	2222 378 84223	N/A	Bulk
0.027 μ F	1600V	5%	27.5mm	2222 378 84273	N/A	Bulk
0.033 μ F	1600V	5%	27.5mm	2222 378 84333	N/A	Bulk
0.039 μ F	1600V	5%	27.5mm	2222 378 84393	N/A	Bulk
0.047 μ F	1600V	5%	27.5mm	2222 378 84473	N/A	Bulk
0.056 μ F	1600V	5%	27.5mm	2222 378 84563	N/A	Bulk
0.062 μ F	1600V	5%	27.5mm	2222 378 84623	N/A	Bulk
0.068 μ F	1600V	5%	27.5mm	2222 378 84683	N/A	Bulk
0.082 μ F	1600V	5%	27.5mm	2222 378 84823	N/A	Bulk
0.10 μ F	1600V	5%	27.5mm	2222 378 84104	N/A	Bulk
0.0033 μ F	2000V	5%	22.5mm	2222 378 94332	N/A	Bulk
0.0039 μ F	2000V	5%	22.5mm	2222 378 94392	N/A	Bulk
0.0047 μ F	2000V	5%	22.5mm	2222 378 94472	N/A	Bulk
0.0056 μ F	2000V	5%	22.5mm	2222 378 94562	N/A	Bulk
0.0062 μ F	2000V	5%	22.5mm	2222 378 94622	N/A	Bulk
0.0068 μ F	2000V	5%	22.5mm	2222 378 94682	N/A	Bulk
0.0082 μ F	2000V	5%	22.5mm	2222 378 94822	N/A	Bulk
0.010 μ F	2000V	5%	22.5mm	2222 378 94103	N/A	Bulk
0.012 μ F	2000V	5%	22.5mm	2222 378 94123	N/A	Bulk
0.015 μ F	2000V	5%	27.5mm	2222 378 94153	N/A	Bulk
0.018 μ F	2000V	5%	27.5mm	2222 378 94183	N/A	Bulk
0.022 μ F	2000V	5%	27.5mm	2222 378 94223	N/A	Bulk
0.027 μ F	2000V	5%	27.5mm	2222 378 94273	N/A	Bulk
0.033 μ F	2000V	5%	27.5mm	2222 378 94333	N/A	Bulk
0.039 μ F	2000V	5%	27.5mm	2222 378 94393	N/A	Bulk
0.047 μ F	2000V	5%	27.5mm	2222 378 94473	N/A	Bulk

Metallized Polypropylene Film Capacitors (MKP)

PHILIPS



Series 2222 379/380 AC & Pulse Film Capacitors (Radial Potted Box)

Features

- 5 mm to 27.5 mm lead pitch
- Bulk, tape and reel (restrictions apply)

Marking (Typical)

2222-379 marked by laser print on top or on top and side with the following:

Cap Code
Cap Tolerance
Rated DC Voltage
Code for Dielectric (MKP)
Code for Factory of Origin (HQ)
Mfg Type (379)
Mfg Name
Year & Week of Mfg

Marking

2222-380 marked by laser on face with the following:

Cap Code
Cap Tolerance
Rated DC Voltage
Mfg Name
Code for Dielectric (MKP)
Code for Year & Week of Production

General

Cap Range	0.0015 to 6.2 UF
Cap Tolerance	±5%, ±10%
For Pitch ≤ 15 mm	
Rated Voltage (DC)	100V, 160V, 250V, 400V, 630V
Rated Voltage (AC)	63V, 100V, 160V, 200V, 220V
Peak to Peak	180V, 280V, 450V, 560V, 620V
For Pitch > 15 mm	
Rated Voltage (DC)	160V, 250V, 400V, 630V
Rated Voltage (AC)	100V, 160V, 200V, 250V
Peak to Peak	280V, 450V, 560V, 700V
Rated Temperature (DC)	85°C
Rated Temperature (AC)	70°C
Max Application Temp	85°C
Reference Specification	IEC 384-17
Performance Grade	Grade 1 (Long Life)
Stability Grade	
100V & 160V	Grade 2
250 V to 660V	
Pitch 5mm to 15mm	Grade 2
Pitch 22.5mm & 27.5mm	Grade 1
Climatic Category:	55/085/56

Applications

- Low losses due to low contact resistance and low loss dielectric result in applications where high currents @ high frequency occur or high stability is preferred.

*** Note: the application notes conditions must be met before use of these capacitors in an actual application. See 379/380 section of PA05 Handbook.**

2222	379	3	4	823
Capacitor	Type	Voltage	Packaging, Tolerance, Lead Length	Capacitance
		3 = 160V	1 = Bulk, 5%, 4 mm	
		4 = 250V	2 = Bulk, 10%, 4 mm	
		5 = 400V	4 = Bulk, 5%, 3.5 mm	
		6 = 630V	5 = Ammo, 10%	
			6 = Ammo, 10%	

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.082 μ F	160V	5%	10.0mm	2222 379 34823	N/A	Bulk
0.10 μ F	160V	5%	10.0mm	2222 379 34104	N/A	Bulk
0.12 μ F	160V	5%	10.0mm	2222 379 34124	N/A	Bulk
0.15 μ F	160V	5%	10.0mm	2222 379 34154	N/A	Bulk
0.18 μ F	160V	5%	15.0mm	2222 379 34184	N/A	Bulk
0.22 μ F	160V	5%	15.0mm	2222 379 34224	N/A	Bulk
0.27 μ F	160V	5%	15.0mm	2222 379 34274	N/A	Bulk
0.33 μ F	160V	5%	15.0mm	2222 379 34334	N/A	Bulk
0.39 μ F	160V	5%	15.0mm	2222 379 34394	N/A	Bulk
0.47 μ F	160V	5%	15.0mm	2222 379 34474	N/A	Bulk
0.56 μ F	160V	5%	15.0mm	2222 379 34564	N/A	Bulk
0.68 μ F	160V	5%	15.0mm	2222 379 34684	N/A	Bulk
0.82 μ F	160V	5%	22.5mm	2222 379 34824	N/A	Bulk
1.0 μ F	160V	5%	22.5mm	2222 379 34105	N/A	Bulk
1.2 μ F	160V	5%	22.5mm	2222 379 34125	N/A	Bulk
1.5 μ F	160V	5%	22.5mm	2222 379 34155	N/A	Bulk
1.8 μ F	160V	5%	22.5mm	2222 379 34185	N/A	Bulk
2.2 μ F	160V	5%	27.5mm	2222 379 34225	N/A	Bulk
2.7 μ F	160V	5%	27.5mm	2222 379 34275	N/A	Bulk
3.3 μ F	160V	5%	27.5mm	2222 379 34335	N/A	Bulk
3.9 μ F	160V	5%	27.5mm	2222 379 34395	N/A	Bulk
4.7 μ F	160V	5%	27.5mm	2222 379 34475	N/A	Bulk
5.6 μ F	160V	5%	27.5mm	2222 379 34565	N/A	Bulk
0.10 μ F	250V	5%	15.0mm	2222 379 44104	N/A	Bulk
0.12 μ F	250V	5%	15.0mm	2222 379 44124	N/A	Bulk
0.15 μ F	250V	5%	15.0mm	2222 379 44154	N/A	Bulk
0.18 μ F	250V	5%	15.0mm	2222 379 44184	N/A	Bulk
0.22 μ F	250V	5%	15.0mm	2222 379 44224	N/A	Bulk
0.27 μ F	250V	5%	15.0mm	2222 379 44274	N/A	Bulk
0.33 μ F	250V	5%	15.0mm	2222 379 44334	N/A	Bulk
0.36 μ F	250V	5%	15.0mm	2222 379 44364	N/A	Bulk
0.39 μ F	250V	5%	15.0mm	2222 379 44394	N/A	Bulk
0.43 μ F	250V	5%	15.0mm	2222 379 44434	N/A	Bulk
0.47 μ F	250V	5%	15.0mm	2222 379 44474	N/A	Bulk
0.51 μ F	250V	5%	22.5mm	2222 379 44514	N/A	Bulk
0.56 μ F	250V	5%	22.5mm	2222 379 44564	N/A	Bulk
0.62 μ F	250V	5%	22.5mm	2222 379 44624	N/A	Bulk
0.68 μ F	250V	5%	22.5mm	2222 379 44684	N/A	Bulk
0.75 μ F	250V	5%	22.5mm	2222 379 44754	N/A	Bulk
0.82 μ F	250V	5%	22.5mm	2222 379 44824	N/A	Bulk
1.0 μ F	250V	5%	22.5mm	2222 379 44105	N/A	Bulk
1.2 μ F	250V	5%	22.5mm	2222 379 44125	N/A	Bulk
1.5 μ F	250V	5%	27.5mm	2222 379 44155	N/A	Bulk
1.8 μ F	250V	5%	27.5mm	2222 379 44185	N/A	Bulk
2.2 μ F	250V	5%	27.5mm	2222 379 44225	N/A	Bulk
2.7 μ F	250V	5%	27.5mm	2222 379 44275	N/A	Bulk
3.3 μ F	250V	5%	27.5mm	2222 379 44335	N/A	Bulk
3.9 μ F	250V	5%	27.5mm	2222 379 44395	N/A	Bulk
0.022 μ F	400V	5%	10.0mm	2222 379 54223	N/A	Bulk
0.027 μ F	400V	5%	10.0mm	2222 379 54273	N/A	Bulk

Film Capacitor A C and Pulse

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.033 μ F	400V	5%	10.0mm	2222 379 54333	N/A	Bulk
0.039 μ F	400V	5%	10.0mm	2222 379 54393	N/A	Bulk
0.047 μ F	400V	5%	15.0mm	2222 379 54473	N/A	Bulk
0.056 μ F	400V	5%	15.0mm	2222 379 54563	N/A	Bulk
0.068 μ F	400V	5%	15.0mm	2222 379 54683	N/A	Bulk
0.082 μ F	400V	5%	15.0mm	2222 379 54823	N/A	Bulk
0.10 μ F	400V	5%	15.0mm	2222 379 54104	N/A	Bulk
0.12 μ F	400V	5%	15.0mm	2222 379 54124	N/A	Bulk
0.15 μ F	400V	5%	15.0mm	2222 379 54154	N/A	Bulk
0.18 μ F	400V	5%	15.0mm	2222 379 54184	N/A	Bulk
0.22 μ F	400V	5%	15.0mm	2222 379 54224	N/A	Bulk
0.27 μ F	400V	5%	22.5mm	2222 379 54274	N/A	Bulk
0.33 μ F	400V	5%	22.5mm	2222 379 54334	N/A	Bulk
0.36 μ F	400V	5%	22.5mm	2222 379 54364	N/A	Bulk
0.39 μ F	400V	5%	22.5mm	2222 379 54394	N/A	Bulk
0.43 μ F	400V	5%	22.5mm	2222 379 54434	N/A	Bulk
0.47 μ F	400V	5%	22.5mm	2222 379 54474	N/A	Bulk
0.51 μ F	400V	5%	22.5mm	2222 379 54514	N/A	Bulk
0.56 μ F	400V	5%	22.5mm	2222 379 54564	N/A	Bulk
0.62 μ F	400V	5%	22.5mm	2222 379 54624	N/A	Bulk
0.68 μ F	400V	5%	27.5mm	2222 379 54684	N/A	Bulk
0.75 μ F	400V	5%	27.5mm	2222 379 54754	N/A	Bulk
0.82 μ F	400V	5%	27.5mm	2222 379 54824	N/A	Bulk
1.0 μ F	400V	5%	27.5mm	2222 379 54105	N/A	Bulk
1.2 μ F	400V	5%	27.5mm	2222 379 54125	N/A	Bulk
1.5 μ F	400V	5%	27.5mm	2222 379 54155	N/A	Bulk
1.8 μ F	400V	5%	27.5mm	2222 379 54185	N/A	Bulk
0.01 μ F	630V	5%	10.0mm	2222 379 64103	N/A	Bulk
0.012 μ F	630V	5%	10.0mm	2222 379 64123	N/A	Bulk
0.015 μ F	630V	5%	10.0mm	2222 379 64153	N/A	Bulk
0.018 μ F	630V	5%	10.0mm	2222 379 64183	N/A	Bulk
0.022 μ F	630V	5%	10.0mm	2222 379 64223	N/A	Bulk
0.027 μ F	630V	5%	15.0mm	2222 379 64273	N/A	Bulk
0.033 μ F	630V	5%	15.0mm	2222 379 64333	N/A	Bulk
0.036 μ F	630V	5%	15.0mm	2222 379 64363	N/A	Bulk
0.039 μ F	630V	5%	15.0mm	2222 379 64393	N/A	Bulk
0.047 μ F	630V	5%	15.0mm	2222 379 64473	N/A	Bulk
0.056 μ F	630V	5%	15.0mm	2222 379 64563	N/A	Bulk
0.068 μ F	630V	5%	15.0mm	2222 379 64683	N/A	Bulk
0.082 μ F	630V	5%	15.0mm	2222 379 64823	N/A	Bulk
0.10 μ F	630V	5%	15.0mm	2222 379 64104	N/A	Bulk
0.11 μ F	630V	5%	15.0mm	2222 379 64114	N/A	Bulk
0.12 μ F	630V	5%	22.5mm	2222 379 64124	N/A	Bulk
0.15 μ F	630V	5%	22.5mm	2222 379 64154	N/A	Bulk
0.18 μ F	630V	5%	22.5mm	2222 379 64184	N/A	Bulk
0.22 μ F	630V	5%	22.5mm	2222 379 64224	N/A	Bulk
0.27 μ F	630V	5%	22.5mm	2222 379 64274	N/A	Bulk
0.30 μ F	630V	5%	22.5mm	2222 379 64304	N/A	Bulk
0.33 μ F	630V	5%	27.5mm	2222 379 64334	N/A	Bulk
0.39 μ F	630V	5%	27.5mm	2222 379 64394	N/A	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.47 μ F	630V	5%	27.5mm	2222 379 64474	N/A	Bulk
0.56 μ F	630V	5%	27.5mm	2222 379 64564	N/A	Bulk
0.68 μ F	630V	5%	27.5mm	2222 379 64684	N/A	Bulk
0.82 μ F	630V	5%	27.5mm	2222 379 64824	N/A	Bulk
1.0 μ F	630V	5%	27.5mm	2222 379 64105	N/A	Bulk

Film Capacitor A C and Pulse

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.015 μ F	100V	10%	5.0mm	2222 380 25153	N/A	Ammono
0.018 μ F	100V	10%	5.0mm	2222 380 25183	N/A	Ammono
0.022 μ F	100V	10%	5.0mm	2222 380 25223	N/A	Ammono
0.027 μ F	100V	10%	5.0mm	2222 380 25273	N/A	Ammono
0.033 μ F	100V	10%	5.0mm	2222 380 25333	N/A	Ammono
0.039 μ F	100V	10%	5.0mm	2222 380 25393	N/A	Ammono
0.047 μ F	100V	10%	5.0mm	2222 380 25473	N/A	Ammono
0.056 μ F	100V	10%	5.0mm	2222 380 25563	N/A	Ammono
0.068 μ F	100V	10%	5.0mm	2222 380 25683	N/A	Ammono
0.082 μ F	100V	10%	5.0mm	2222 380 25823	N/A	Ammono
0.10 μ F	100V	10%	5.0mm	2222 380 25104	N/A	Ammono
0.010 μ F	160V	10%	5.0mm	2222 380 35103	N/A	Ammono
0.012 μ F	160V	10%	5.0mm	2222 380 35123	N/A	Ammono
0.015 μ F	160V	10%	5.0mm	2222 380 35153	N/A	Ammono
0.018 μ F	160V	10%	5.0mm	2222 380 35183	N/A	Ammono
0.022 μ F	160V	10%	5.0mm	2222 380 35223	N/A	Ammono
0.027 μ F	160V	10%	5.0mm	2222 380 35273	N/A	Ammono
0.033 μ F	160V	10%	5.0mm	2222 380 35333	N/A	Ammono
0.039 μ F	160V	10%	5.0mm	2222 380 35393	N/A	Ammono
0.047 μ F	160V	10%	5.0mm	2222 380 35473	N/A	Ammono
0.056 μ F	160V	10%	5.0mm	2222 380 35563	N/A	Ammono
0.068 μ F	160V	10%	5.0mm	2222 380 35683	N/A	Ammono
0.0068 μ F	250V	10%	5.0mm	2222 380 45682	N/A	Ammono
0.0082 μ F	250V	10%	5.0mm	2222 380 45822	N/A	Ammono
0.010 μ F	250V	10%	5.0mm	2222 380 45103	N/A	Ammono
0.012 μ F	250V	10%	5.0mm	2222 380 45123	N/A	Ammono
0.015 μ F	250V	10%	5.0mm	2222 380 45153	N/A	Ammono
0.018 μ F	250V	10%	5.0mm	2222 380 45183	N/A	Ammono
0.022 μ F	250V	10%	5.0mm	2222 380 45223	N/A	Ammono
0.027 μ F	250V	10%	5.0mm	2222 380 45273	N/A	Ammono
0.033 μ F	250V	10%	5.0mm	2222 380 45333	N/A	Ammono
0.039 μ F	250V	10%	5.0mm	2222 380 45393	N/A	Ammono
0.0033 μ F	400V	10%	5.0mm	2222 380 55332	N/A	Ammono
0.0039 μ F	400V	10%	5.0mm	2222 380 55392	N/A	Ammono
0.0047 μ F	400V	10%	5.0mm	2222 380 55472	N/A	Ammono
0.0068 μ F	400V	10%	5.0mm	2222 380 55682	N/A	Ammono
0.0082 μ F	400V	10%	5.0mm	2222 380 55822	N/A	Ammono
0.010 μ F	400V	10%	5.0mm	2222 380 55103	N/A	Ammono
0.012 μ F	400V	10%	5.0mm	2222 380 55123	N/A	Ammono
0.015 μ F	400V	10%	5.0mm	2222 380 55153	N/A	Ammono
0.018 μ F	400V	10%	5.0mm	2222 380 55183	N/A	Ammono
0.056 μ F	400V	10%	5.0mm	2222 380 55562	N/A	Ammono
0.0015 μ F	630V	10%	5.0mm	2222 380 65152	N/A	Ammono
0.0018 μ F	630V	10%	5.0mm	2222 380 65182	N/A	Ammono
0.0022 μ F	630V	10%	5.0mm	2222 380 65222	N/A	Ammono
0.0027 μ F	630V	10%	5.0mm	2222 380 65272	N/A	Ammono
0.0033 μ F	630V	10%	5.0mm	2222 380 65332	N/A	Ammono
0.0039 μ F	630V	10%	5.0mm	2222 380 65392	N/A	Ammono
0.0047 μ F	630V	10%	5.0mm	2222 380 65472	N/A	Ammono
0.0068 μ F	630V	10%	5.0mm	2222 380 65682	N/A	Ammono

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.0082 μ F	630V	10%	5.0mm	2222 380 65822	N/A	Ammo
0.056 μ F	630V	10%	5.0mm	2222 380 65562	N/A	Ammo



Metallized Polyester Film Capacitors (MKT)

PHILIPS



Series 2222 365/366/ 367/368/369 General Purpose Film Capacitors (Radial Epoxy Lacquered)

Features

- Low inductive wound cell of metallized film
- Cell protected by epoxy lacquer
- Radial leads of solder coated wire
- Resistant to solvents and rinsing liquids
- Bulk, tape and reel, ammo pak (restrictions apply)

Marking (Typical)

Parts marked with Cap Code, Tol, Voltage

General

Cap Range	0.001 to 6.8 μ F
Cap Tolerance	$\pm 10\%$; $\pm 5\%$
Rated Voltage (DC)	63, 100, 250, 400, 630
Rated Temperature	85°C
Max Application Temp	100°C
Reference Specification	IEC 384-2
Performance Grade	Grade 1 (Long Life)
Climatic Category	55/100/56

Applications

- Blocking and coupling
- Bypass and energy storage

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.047 μ F	63V	10%	5.08mm	2222 365 75473	712A1XA473PK630AG	Ammo
0.047 μ F	63V	5%	5.08mm	2222 365 76473	712A1XA473PJ630AG	Ammo
0.056 μ F	63V	10%	5.08mm	2222 365 75563	712A1XA563PK630AG	Ammo
0.056 μ F	63V	5%	5.08mm	2222 365 76563	712A1XA563PJ630AG	Ammo
0.068 μ F	63V	10%	5.08mm	2222 365 75683	712A1XA683PK630AG	Ammo
0.068 μ F	63V	5%	5.08mm	2222 365 76683	712A1XA683PJ630AG	Ammo
0.082 μ F	63V	10%	5.08mm	2222 365 75823	712A1XA823PK630AG	Ammo
0.082 μ F	63V	5%	5.08mm	2222 365 76823	712A1XA823PJ630AG	Ammo
0.10 μ F	63V	10%	5.08mm	2222 365 75104	712A1XA104PK630AG	Ammo
0.10 μ F	63V	5%	5.08mm	2222 365 76104	712A1XA104PJ630AG	Ammo
0.12 μ F	63V	10%	5.08mm	2222 365 15124	712A1AB124PK630AG	Ammo
0.12 μ F	63V	5%	5.08mm	2222 365 16124	712A1AB124PJ630AG	Ammo
0.12 μ F	63V	10%	5.08mm	2222 365 75124	712A1XA124PK630AG	Ammo
0.12 μ F	63V	5%	5.08mm	2222 365 76124	712A1XA124PJ630AG	Ammo
0.15 μ F	63V	10%	5.08mm	2222 365 15154	712A1AB154PK630AG	Ammo
0.15 μ F	63V	5%	5.08mm	2222 365 16154	712A1AB154PJ630AG	Ammo
0.15 μ F	63V	10%	5.08mm	2222 365 75154	712A1XB154PK630AG	Ammo
0.15 μ F	63V	5%	5.08mm	2222 365 76154	712A1XB154PJ630AG	Ammo
0.18 μ F	63V	10%	5.08mm	2222 365 15184	712A1AB184PK630AG	Ammo
0.18 μ F	63V	5%	5.08mm	2222 365 16184	712A1AB184PJ630AG	Ammo
0.18 μ F	63V	10%	5.08mm	2222 365 75184	712A1XC184PK630AG	Ammo
0.18 μ F	63V	5%	5.08mm	2222 365 76184	712A1XC184PJ630AG	Ammo
0.22 μ F	63V	10%	5.08mm	2222 365 15224	712A1AB224PK630AG	Ammo
0.22 μ F	63V	5%	5.08mm	2222 365 16224	712A1AB224PJ630AG	Ammo
0.22 μ F	63V	10%	5.08mm	2222 365 75224	712A1XC224PK630AG	Ammo
0.22 μ F	63V	5%	5.08mm	2222 365 76224	712A1XC224PJ630AG	Ammo
0.27 μ F	63V	10%	5.08mm	2222 365 15274	712A1AC274PK630AG	Ammo
0.27 μ F	63V	5%	5.08mm	2222 365 16274	712A1AC274PJ630AG	Ammo
0.27 μ F	63V	10%	5.08mm	2222 365 75274	712A1XD274PK630AG	Ammo
0.27 μ F	63V	5%	5.08mm	2222 365 76274	712A1XD274PJ630AG	Ammo
0.33 μ F	63V	10%	5.08mm	2222 365 15334	712A1AD334PK630AG	Ammo
0.33 μ F	63V	5%	5.08mm	2222 365 16334	712A1AD334PJ630AG	Ammo
0.33 μ F	63V	10%	5.08mm	2222 365 75334	712A1XE334PK630AG	Ammo
0.33 μ F	63V	5%	5.08mm	2222 365 76334	712A1XE334PJ630AG	Ammo
0.39 μ F	63V	10%	5.08mm	2222 365 15394	712A1AD394PK630AG	Ammo
0.39 μ F	63V	5%	5.08mm	2222 365 16394	712A1AD394PJ630AG	Ammo
0.39 μ F	63V	10%	5.08mm	2222 365 75394	712A1XE394PK630AG	Ammo
0.39 μ F	63V	5%	5.08mm	2222 365 76394	712A1XE394PJ630AG	Ammo
0.47 μ F	63V	10%	5.08mm	2222 365 15474	712A1AE474PK630AG	Ammo
0.47 μ F	63V	5%	5.08mm	2222 365 16474	712A1AE474PJ630AG	Ammo
0.47 μ F	63V	10%	5.08mm	2222 365 75474	712A1XF474PK630AG	Ammo
0.47 μ F	63V	5%	5.08mm	2222 365 76474	712A1XF474PJ630AG	Ammo
0.56 μ F	63V	10%	5.08mm	2222 365 15564	712A1AE564PK630AG	Ammo
0.56 μ F	63V	5%	5.08mm	2222 365 16564	712A1AE564PJ630AG	Ammo
0.56 μ F	63V	10%	5.08mm	2222 365 75564	712A1XG564PK630AG	Ammo
0.56 μ F	63V	5%	5.08mm	2222 365 76564	712A1XG564PJ630AG	Ammo
0.68 μ F	63V	10%	5.08mm	2222 365 15684	712A1AE684PK630AG	Ammo
0.68 μ F	63V	5%	5.08mm	2222 365 16684	712A1AE684PJ630AG	Ammo
0.68 μ F	63V	10%	5.08mm	2222 365 75684	712A1XE684PK630AG	Ammo
0.68 μ F	63V	5%	5.08mm	2222 365 76684	712A1XE684PJ630AG	Ammo

Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.82 μ F	63V	10%	5.08mm	2222 365 15824	712A1AE824PK630AG	Ammo
0.82 μ F	63V	5%	5.08mm	2222 365 16824	712A1AE824PJ630AG	Ammo
0.82 μ F	63V	10%	5.08mm	2222 365 75824	712A1XH824PK630AG	Ammo
0.82 μ F	63V	5%	5.08mm	2222 365 76824	712A1XH824PJ630AG	Ammo
1.0 μ F	63V	10%	5.08mm	2222 365 15105	712A1AE105PK630AG	Ammo
1.0 μ F	63V	5%	5.08mm	2222 365 16105	712A1AE105PJ630AG	Ammo
1.0 μ F	63V	10%	5.08mm	2222 365 75105	712A1XJ105PK630AG	Ammo
1.0 μ F	63V	5%	5.08mm	2222 365 76105	712A1XJ105PJ630AG	Ammo
0.01 μ F	100V	10%	5.08mm	2222 365 85103	712A1XA103PK101AG	Ammo
0.01 μ F	100V	5%	5.08mm	2222 365 86103	712A1XA103PJ101AG	Ammo
0.012 μ F	100V	10%	5.08mm	2222 365 85123	712A1XA123PK101AG	Ammo
0.012 μ F	100V	5%	5.08mm	2222 365 86123	712A1XA123PJ101AG	Ammo
0.015 μ F	100V	10%	5.08mm	2222 365 85153	712A1XA153PK101AG	Ammo
0.015 μ F	100V	5%	5.08mm	2222 365 86153	712A1XA153PJ101AG	Ammo
0.018 μ F	100V	10%	5.08mm	2222 365 85183	712A1XA183PK101AG	Ammo
0.018 μ F	100V	5%	5.08mm	2222 365 86183	712A1XA183PJ101AG	Ammo
0.022 μ F	100V	10%	5.08mm	2222 365 85223	712A1XA223PK101AG	Ammo
0.022 μ F	100V	5%	5.08mm	2222 365 86223	712A1XA223PJ101AG	Ammo
0.027 μ F	100V	10%	5.08mm	2222 365 85273	712A1XA273PK101AG	Ammo
0.027 μ F	100V	5%	5.08mm	2222 365 86273	712A1XA273PJ101AG	Ammo
0.033 μ F	100V	10%	5.08mm	2222 365 85333	712A1XA333PK101AG	Ammo
0.033 μ F	100V	5%	5.08mm	2222 365 86333	712A1XA333PJ101AG	Ammo
0.039 μ F	100V	10%	5.08mm	2222 365 25393	712A1AB393PK101AG	Ammo
0.039 μ F	100V	5%	5.08mm	2222 365 26393	712A1AB393PJ101AG	Ammo
0.039 μ F	100V	10%	5.08mm	2222 365 85393	712A1XA393PK101AG	Ammo
0.039 μ F	100V	5%	5.08mm	2222 365 86393	712A1XA393PJ101AG	Ammo
0.047 μ F	100V	10%	5.08mm	2222 365 25473	712A1AB473PK101AG	Ammo
0.047 μ F	100V	5%	5.08mm	2222 365 26473	712A1AB473PJ101AG	Ammo
0.047 μ F	100V	10%	5.08mm	2222 365 85473	712A1XA473PK101AG	Ammo
0.047 μ F	100V	5%	5.08mm	2222 365 86473	712A1XA473PJ101AG	Ammo
0.056 μ F	100V	10%	5.08mm	2222 365 25563	712A1AB563PK101AG	Ammo
0.056 μ F	100V	5%	5.08mm	2222 365 26563	712A1AB563PJ101AG	Ammo
0.056 μ F	100V	10%	5.08mm	2222 365 85563	712A1XA563PK101AG	Ammo
0.056 μ F	100V	5%	5.08mm	2222 365 86563	712A1XA563PJ101AG	Ammo
0.068 μ F	100V	10%	5.08mm	2222 365 25683	712A1AB683PK101AG	Ammo
0.068 μ F	100V	5%	5.08mm	2222 365 26683	712A1AB683PJ101AG	Ammo
0.068 μ F	100V	10%	5.08mm	2222 365 85683	712A1XA683PK101AG	Ammo
0.068 μ F	100V	5%	5.08mm	2222 365 86683	712A1XA683PJ101AG	Ammo
0.082 μ F	100V	10%	5.08mm	2222 365 25823	712A1AB823PK101AG	Ammo
0.082 μ F	100V	5%	5.08mm	2222 365 26823	712A1AB823PJ101AG	Ammo
0.082 μ F	100V	10%	5.08mm	2222 365 85823	712A1XB823PK101AG	Ammo
0.082 μ F	100V	5%	5.08mm	2222 365 86823	712A1XB823PJ101AG	Ammo
0.10 μ F	100V	10%	5.08mm	2222 365 25104	712A1AB104PK101AG	Ammo
0.10 μ F	100V	5%	5.08mm	2222 365 26104	712A1AB104PJ101AG	Ammo
0.10 μ F	100V	10%	5.08mm	2222 365 85104	712A1XC104PK101AG	Ammo
0.10 μ F	100V	5%	5.08mm	2222 365 86104	712A1XC104PJ101AG	Ammo
0.12 μ F	100V	10%	5.08mm	2222 365 25124	712A1AC124PK101AG	Ammo
0.12 μ F	100V	5%	5.08mm	2222 365 26124	712A1AC124PJ101AG	Ammo
0.15 μ F	100V	10%	5.08mm	2222 365 25154	712A1AD154PK101AG	Ammo
0.15 μ F	100V	5%	5.08mm	2222 365 26154	712A1AD154PJ101AG	Ammo

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.18 μ F	100V	10%	5.08mm	2222 365 25184	712A1AD184PK101AG	Ammo
0.18 μ F	100V	5%	5.08mm	2222 365 26184	712A1AD184PJ101AG	Ammo
0.22 μ F	100V	10%	5.08mm	2222 365 25224	712A1AE224PK101AG	Ammo
0.22 μ F	100V	5%	5.08mm	2222 365 26224	712A1AE224PJ101AG	Ammo
0.27 μ F	100V	10%	5.08mm	2222 365 25274	712A1AF274PK101AG	Ammo
0.27 μ F	100V	5%	5.08mm	2222 365 26274	712A1AF274PJ101AG	Ammo
0.33 μ F	100V	10%	5.08mm	2222 365 25334	712A1AF334PK101AG	Ammo
0.33 μ F	100V	5%	5.08mm	2222 365 26334	712A1AF334PJ101AG	Ammo
0.39 μ F	100V	10%	5.08mm	2222 365 25394	712A1AF394PK101AG	Ammo
0.39 μ F	100V	5%	5.08mm	2222 365 26394	712A1AF394PJ101AG	Ammo
0.47 μ F	100V	10%	5.08mm	2222 365 25474	712A1AF474PK101AG	Ammo
0.47 μ F	100V	5%	5.08mm	2222 365 26474	712A1AF474PJ101AG	Ammo
0.018 μ F	250V	10%	5.08mm	2222 365 45183	712A1AB183PK251AG	Ammo
0.018 μ F	250V	5%	5.08mm	2222 365 46183	712A1AB183PJ251AG	Ammo
0.022 μ F	250V	10%	5.08mm	2222 365 45223	712A1AB223PK251AG	Ammo
0.022 μ F	250V	5%	5.08mm	2222 365 46223	712A1AB223PJ251AG	Ammo
0.027 μ F	250V	10%	5.08mm	2222 365 45273	712A1AB273PK251AG	Ammo
0.027 μ F	250V	5%	5.08mm	2222 365 46273	712A1AB273PJ251AG	Ammo
0.033 μ F	250V	10%	5.08mm	2222 365 45333	712A1AB333PK251AG	Ammo
0.033 μ F	250V	5%	5.08mm	2222 365 46333	712A1AB333PJ251AG	Ammo
0.039 μ F	250V	10%	5.08mm	2222 365 45393	712A1AB393PK251AG	Ammo
0.039 μ F	250V	5%	5.08mm	2222 365 46393	712A1AB393PJ251AG	Ammo
0.047 μ F	250V	10%	5.08mm	2222 365 45473	712A1AB473PK251AG	Ammo
0.047 μ F	250V	5%	5.08mm	2222 365 46473	712A1AB473PJ251AG	Ammo
0.0033 μ F	400V	10%	5.08mm	2222 365 55332	712A1AB332PK401AG	Ammo
0.0033 μ F	400V	5%	5.08mm	2222 365 56332	712A1AB332PJ401AG	Ammo
0.0039 μ F	400V	10%	5.08mm	2222 365 55392	712A1AB392PK401AG	Ammo
0.0039 μ F	400V	5%	5.08mm	2222 365 56392	712A1AB392PJ401AG	Ammo
0.0047 μ F	400V	10%	5.08mm	2222 365 55472	712A1AB472PK401AG	Ammo
0.0047 μ F	400V	5%	5.08mm	2222 365 56472	712A1AB472PJ401AG	Ammo
0.0056 μ F	400V	10%	5.08mm	2222 365 55562	712A1AB562PK401AG	Ammo
0.0056 μ F	400V	5%	5.08mm	2222 365 56562	712A1AB562PJ401AG	Ammo
0.0068 μ F	400V	10%	5.08mm	2222 365 55682	712A1AB682PK401AG	Ammo
0.0068 μ F	400V	5%	5.08mm	2222 365 56682	712A1AB682PJ401AG	Ammo
0.0082 μ F	400V	10%	5.08mm	2222 365 55822	712A1AB822PK401AG	Ammo
0.0082 μ F	400V	5%	5.08mm	2222 365 56822	712A1AB822PJ401AG	Ammo
0.010 μ F	400V	10%	5.08mm	2222 365 55103	712A1AB103PK401AG	Ammo
0.010 μ F	400V	5%	5.08mm	2222 365 56103	712A1AB103PJ401AG	Ammo
0.012 μ F	400V	10%	5.08mm	2222 365 55123	712A1AB123PK401AG	Ammo
0.012 μ F	400V	5%	5.08mm	2222 365 56123	712A1AB123PJ401AG	Ammo
0.015 μ F	400V	10%	5.08mm	2222 365 55153	712A1AB153PK401AG	Ammo
0.015 μ F	400V	5%	5.08mm	2222 365 56153	712A1AB153PJ401AG	Ammo

Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.047 μ F	63V	10%	5.08mm	2222 366 75473	712A1XA473PK630SG	Bulk
0.047 μ F	63V	5%	5.08mm	2222 366 76473	712A1XA473PJ630SG	Bulk
0.056 μ F	63V	10%	5.08mm	2222 366 75563	712A1XA563PK630SG	Bulk
0.056 μ F	63V	5%	5.08mm	2222 366 76563	712A1XA563PJ630SG	Bulk
0.068 μ F	63V	10%	5.08mm	2222 366 75683	712A1XA683PK630SG	Bulk
0.068 μ F	63V	5%	5.08mm	2222 366 76683	712A1XA683PJ630SG	Bulk
0.082 μ F	63V	10%	5.08mm	2222 366 75823	712A1XA823PK630SG	Bulk
0.082 μ F	63V	5%	5.08mm	2222 366 76823	712A1XA823PJ630SG	Bulk
0.10 μ F	63V	10%	5.08mm	2222 366 75104	712A1XA104PK630SG	Bulk
0.10 μ F	63V	5%	5.08mm	2222 366 76104	712A1XA104PJ630SG	Bulk
0.12 μ F	63V	10%	7.62mm	2222 366 15124	712A1AB124PK630SH	Bulk
0.12 μ F	63V	5%	7.62mm	2222 366 16124	712A1AB124PJ630SH	Bulk
0.12 μ F	63V	10%	5.08mm	2222 366 75124	712A1XA124PK630SG	Bulk
0.12 μ F	63V	5%	5.08mm	2222 366 76124	712A1XA124PJ630SG	Bulk
0.15 μ F	63V	10%	7.62mm	2222 366 15154	712A1AB154PK630SH	Bulk
0.15 μ F	63V	5%	7.62mm	2222 366 16154	712A1AB154PJ630SH	Bulk
0.15 μ F	63V	10%	5.08mm	2222 366 75154	712A1XB154PK630SG	Bulk
0.15 μ F	63V	5%	5.08mm	2222 366 76154	712A1XB154PJ630SG	Bulk
0.18 μ F	63V	10%	7.62mm	2222 366 15184	712A1AB184PK630SH	Bulk
0.18 μ F	63V	5%	7.62mm	2222 366 16184	712A1AB184PJ630SH	Bulk
0.18 μ F	63V	10%	5.08mm	2222 366 75184	712A1XC184PK630SG	Bulk
0.18 μ F	63V	5%	5.08mm	2222 366 76184	712A1XC184PJ630SG	Bulk
0.22 μ F	63V	10%	7.62mm	2222 366 15224	712A1AB224PK630SH	Bulk
0.22 μ F	63V	5%	7.62mm	2222 366 16224	712A1AB224PJ630SH	Bulk
0.22 μ F	63V	10%	5.08mm	2222 366 75224	712A1XC224PK630SG	Bulk
0.22 μ F	63V	5%	5.08mm	2222 366 76224	712A1XC224PJ630SG	Bulk
0.27 μ F	63V	10%	7.62mm	2222 366 15274	712A1AC274PK630SH	Bulk
0.27 μ F	63V	5%	7.62mm	2222 366 16274	712A1AC274PJ630SH	Bulk
0.27 μ F	63V	10%	5.08mm	2222 366 75274	712A1XD274PK630SG	Bulk
0.27 μ F	63V	5%	5.08mm	2222 366 76274	712A1XD274PJ630SG	Bulk
0.33 μ F	63V	10%	7.62mm	2222 366 15334	712A1AD334PK630SH	Bulk
0.33 μ F	63V	5%	7.62mm	2222 366 16334	712A1AD334PJ630SH	Bulk
0.33 μ F	63V	10%	5.08mm	2222 366 75334	712A1XE334PK630SG	Bulk
0.33 μ F	63V	5%	5.08mm	2222 366 76334	712A1XE334PJ630SG	Bulk
0.39 μ F	63V	10%	7.62mm	2222 366 15394	712A1AD394PK630SH	Bulk
0.39 μ F	63V	5%	7.62mm	2222 366 16394	712A1AD394PJ630SH	Bulk
0.39 μ F	63V	10%	5.08mm	2222 366 75394	712A1XE394PK630SG	Bulk
0.39 μ F	63V	5%	5.08mm	2222 366 76394	712A1XE394PJ630SG	Bulk
0.47 μ F	63V	10%	7.62mm	2222 366 15474	712A1AE474PK630SH	Bulk
0.47 μ F	63V	5%	7.62mm	2222 366 16474	712A1AE474PJ630SH	Bulk
0.47 μ F	63V	10%	5.08mm	2222 366 75474	712A1XF474PK630SG	Bulk
0.47 μ F	63V	5%	5.08mm	2222 366 76474	712A1XF474PJ630SG	Bulk
0.56 μ F	63V	10%	7.62mm	2222 366 15564	712A1AE564PK630SH	Bulk
0.56 μ F	63V	5%	7.62mm	2222 366 16564	712A1AE564PJ630SH	Bulk
0.56 μ F	63V	10%	5.08mm	2222 366 75564	712A1XG564PK630SG	Bulk
0.56 μ F	63V	5%	5.08mm	2222 366 76564	712A1XG564PJ630SG	Bulk
0.68 μ F	63V	10%	7.62mm	2222 366 15684	712A1AE684PK630SH	Bulk
0.68 μ F	63V	5%	7.62mm	2222 366 16684	712A1AE684PJ630SH	Bulk
0.68 μ F	63V	10%	5.08mm	2222 366 75684	712A1XE684PK630SG	Bulk
0.68 μ F	63V	5%	5.08mm	2222 366 76684	712A1XE684PJ630SG	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.82 μ F	63V	10%	7.62mm	2222 366 15824	712A1AE824PK630SH	Bulk
0.82 μ F	63V	5%	7.62mm	2222 366 16824	712A1AE824PJ630SH	Bulk
0.82 μ F	63V	10%	5.08mm	2222 366 75824	712A1XH824PK630SG	Bulk
0.82 μ F	63V	5%	5.08mm	2222 366 76824	712A1XH824PJ630SG	Bulk
1.0 μ F	63V	10%	7.62mm	2222 366 15105	712A1AM105PK630SH	Bulk
1.0 μ F	63V	5%	7.62mm	2222 366 16105	712A1AM105PJ630SH	Bulk
1.0 μ F	63V	10%	5.08mm	2222 366 75105	712A1XJ105PK630SG	Bulk
1.0 μ F	63V	5%	5.08mm	2222 366 76105	712A1XJ105PJ630SG	Bulk
0.010 μ F	100V	10%	5.08mm	2222 366 85103	712A1XA103PK101SG	Bulk
0.01 μ F	100V	5%	5.08mm	2222 366 86103	712A1XA103PJ101SG	Bulk
0.012 μ F	100V	10%	5.08mm	2222 366 85123	712A1XA123PK101SG	Bulk
0.012 μ F	100V	5%	5.08mm	2222 366 86123	712A1XA123PJ101SG	Bulk
0.015 μ F	100V	10%	5.08mm	2222 366 85153	712A1XA153PK101SG	Bulk
0.015 μ F	100V	5%	5.08mm	2222 366 86153	712A1XA153PJ101SG	Bulk
0.018 μ F	100V	10%	5.08mm	2222 366 85183	712A1XA183PK101SG	Bulk
0.018 μ F	100V	5%	5.08mm	2222 366 86183	712A1XA183PJ101SG	Bulk
0.022 μ F	100V	10%	5.08mm	2222 366 85223	712A1XA223PK101SG	Bulk
0.022 μ F	100V	5%	5.08mm	2222 366 86223	712A1XA223PJ101SG	Bulk
0.027 μ F	100V	10%	5.08mm	2222 366 85273	712A1XA273PK101SG	Bulk
0.027 μ F	100V	5%	5.08mm	2222 366 86273	712A1XA273PJ101SG	Bulk
0.033 μ F	100V	10%	5.08mm	2222 366 85333	712A1XA333PK101SG	Bulk
0.033 μ F	100V	5%	5.08mm	2222 366 86333	712A1XA333PJ101SG	Bulk
0.039 μ F	100V	10%	7.62mm	2222 366 25393	712A1AB393PK101SH	Bulk
0.039 μ F	100V	5%	7.62mm	2222 366 26393	712A1AB393PJ101SH	Bulk
0.039 μ F	100V	10%	5.08mm	2222 366 85393	712A1XA393PK101SG	Bulk
0.039 μ F	100V	5%	5.08mm	2222 366 86393	712A1XA393PJ101SG	Bulk
0.047 μ F	100V	10%	7.62mm	2222 366 25473	712A1AB473PK101SH	Bulk
0.047 μ F	100V	5%	7.62mm	2222 366 26473	712A1AB473PJ101SH	Bulk
0.047 μ F	100V	10%	5.08mm	2222 366 85473	712A1XA473PK101SG	Bulk
0.047 μ F	100V	5%	5.08mm	2222 366 86473	712A1XA473PJ101SG	Bulk
0.056 μ F	100V	10%	7.62mm	2222 366 25563	712A1AB563PK101SH	Bulk
0.056 μ F	100V	5%	7.62mm	2222 366 26563	712A1AB563PJ101SH	Bulk
0.056 μ F	100V	10%	5.08mm	2222 366 85563	712A1XA563PK101SG	Bulk
0.056 μ F	100V	5%	5.08mm	2222 366 86563	712A1XA563PJ101SG	Bulk
0.068 μ F	100V	10%	7.62mm	2222 366 25683	712A1AB683PK101SH	Bulk
0.068 μ F	100V	5%	7.62mm	2222 366 26683	712A1AB683PJ101SH	Bulk
0.068 μ F	100V	10%	5.08mm	2222 366 85683	712A1XA683PK101SG	Bulk
0.068 μ F	100V	5%	5.08mm	2222 366 86683	712A1XA683PJ101SG	Bulk
0.082 μ F	100V	10%	7.62mm	2222 366 25823	712A1AB823PK101SH	Bulk
0.082 μ F	100V	5%	7.62mm	2222 366 26823	712A1AB823PJ101SH	Bulk
0.082 μ F	100V	10%	5.08mm	2222 366 85823	712A1XB823PK101SG	Bulk
0.082 μ F	100V	5%	5.08mm	2222 366 86823	712A1XB823PJ101SG	Bulk
0.10 μ F	100V	10%	7.62mm	2222 366 25104	712A1AB104PK101SH	Bulk
0.10 μ F	100V	5%	7.62mm	2222 366 26104	712A1AB104PJ101SH	Bulk
0.10 μ F	100V	10%	5.08mm	2222 366 85104	712A1XC104PK101SG	Bulk
0.10 μ F	100V	5%	5.08mm	2222 366 86104	712A1XC104PJ101SG	Bulk
0.12 μ F	100V	10%	7.62mm	2222 366 25124	712A1AC124PK101SH	Bulk
0.12 μ F	100V	5%	7.62mm	2222 366 26124	712A1AC124PJ101SH	Bulk
0.15 μ F	100V	10%	7.62mm	2222 366 25154	712A1AC154PK101SH	Bulk
0.15 μ F	100V	5%	7.62mm	2222 366 26154	712A1AC154PJ101SH	Bulk

Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.18 μ F	100V	10%	7.62mm	2222 366 25184	712A1AD184PK101SH	Bulk
0.18 μ F	100V	5%	7.62mm	2222 366 26184	712A1AD184PJ101SH	Bulk
0.22 μ F	100V	10%	7.62mm	2222 366 25224	712A1AE224PK101SH	Bulk
0.22 μ F	100V	5%	7.62mm	2222 366 26224	712A1AE224PJ101SH	Bulk
0.27 μ F	100V	10%	7.62mm	2222 366 25274	712A1AF274PK101SH	Bulk
0.27 μ F	100V	5%	7.62mm	2222 366 26274	712A1AF274PJ101SH	Bulk
0.33 μ F	100V	10%	7.62mm	2222 366 25334	712A1AF334PK101SH	Bulk
0.33 μ F	100V	5%	7.62mm	2222 366 26334	712A1AF334PJ101SH	Bulk
0.39 μ F	100V	10%	7.62mm	2222 366 25394	712A1AD394PK101SH	Bulk
0.39 μ F	100V	5%	7.62mm	2222 366 26394	712A1AD394PJ101SH	Bulk
0.47 μ F	100V	10%	7.62mm	2222 366 25474	712A1AE474PK101SH	Bulk
0.47 μ F	100V	5%	7.62mm	2222 366 26474	712A1AE474PJ101SH	Bulk
0.018 μ F	250V	10%	7.62mm	2222 366 45183	712A1AB183PK251SH	Bulk
0.018 μ F	250V	5%	7.62mm	2222 366 46183	712A1AB183PJ251SH	Bulk
0.022 μ F	250V	10%	7.62mm	2222 366 45223	712A1AB223PK251SH	Bulk
0.022 μ F	250V	5%	7.62mm	2222 366 46223	712A1AB223PJ251SH	Bulk
0.027 μ F	250V	10%	7.62mm	2222 366 45273	712A1AB273PK251SH	Bulk
0.027 μ F	250V	5%	7.62mm	2222 366 46273	712A1AB273PJ251SH	Bulk
0.033 μ F	250V	10%	7.62mm	2222 366 45333	712A1AB333PK251SH	Bulk
0.033 μ F	250V	5%	7.62mm	2222 366 46333	712A1AB333PJ251SH	Bulk
0.039 μ F	250V	10%	7.62mm	2222 366 45393	712A1AB393PK251SH	Bulk
0.039 μ F	250V	5%	7.62mm	2222 366 46393	712A1AB393PJ251SH	Bulk
0.047 μ F	250V	10%	7.62mm	2222 366 45473	712A1AB473PK251SH	Bulk
0.047 μ F	250V	5%	7.62mm	2222 366 46473	712A1AB473PJ251SH	Bulk
0.0033 μ F	400V	10%	7.62mm	2222 366 55332	712A1AB332PK401SH	Bulk
0.0033 μ F	400V	5%	7.62mm	2222 366 56332	712A1AB332PJ401SH	Bulk
0.0039 μ F	400V	10%	7.62mm	2222 366 55392	712A1AB392PK401SH	Bulk
0.0039 μ F	400V	5%	7.62mm	2222 366 56392	712A1AB392PJ401SH	Bulk
0.0047 μ F	400V	10%	7.62mm	2222 366 55472	712A1AB472PK401SH	Bulk
0.0047 μ F	400V	5%	7.62mm	2222 366 56472	712A1AB472PJ401SH	Bulk
0.0056 μ F	400V	10%	7.62mm	2222 366 55562	712A1AJ562PK401SH	Bulk
0.0056 μ F	400V	5%	7.62mm	2222 366 56562	712A1AJ562PJ401SH	Bulk
0.0068 μ F	400V	10%	7.62mm	2222 366 55682	712A1AJ682PK401SH	Bulk
0.0068 μ F	400V	5%	7.62mm	2222 366 56682	712A1AJ682PJ401SH	Bulk
0.0082 μ F	400V	10%	7.62mm	2222 366 55822	712A1AJ822PK401SH	Bulk
0.0082 μ F	400V	5%	7.62mm	2222 366 56822	712A1AJ822PJ401SH	Bulk
0.010 μ F	400V	10%	7.62mm	2222 366 55103	712A1AJ103PK401SH	Bulk
0.010 μ F	400V	5%	7.62mm	2222 366 56103	712A1AJ103PJ401SH	Bulk
0.012 μ F	400V	10%	7.62mm	2222 366 55123	712A1AJ123PK401SH	Bulk
0.012 μ F	400V	5%	7.62mm	2222 366 56123	712A1AJ123PJ401SH	Bulk
0.015 μ F	400V	10%	7.62mm	2222 366 55153	712A1AJ153PK401SH	Bulk
0.015 μ F	400V	5%	7.62mm	2222 366 56153	712A1AJ153PJ401SH	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.047 μ F	63V	10%	5.08mm	2222 367 75473	712A1XA473PK630SS	Bulk
0.047 μ F	63V	5%	5.08mm	2222 367 76473	712A1XA473PJ630SS	Bulk
0.056 μ F	63V	10%	5.08mm	2222 367 75563	712A1XA563PK630SS	Bulk
0.056 μ F	63V	5%	5.08mm	2222 367 76563	712A1XA563PJ630SS	Bulk
0.068 μ F	63V	10%	5.08mm	2222 367 75683	712A1XA683PK630SS	Bulk
0.068 μ F	63V	5%	5.08mm	2222 367 76683	712A1XA683PJ630SS	Bulk
0.082 μ F	63V	10%	5.08mm	2222 367 75823	712A1XA823PK630SS	Bulk
0.082 μ F	63V	5%	5.08mm	2222 367 76823	712A1XA823PJ630SS	Bulk
0.10 μ F	63V	10%	5.08mm	2222 367 75104	712A1XA104PK630SS	Bulk
0.10 μ F	63V	5%	5.08mm	2222 367 76104	712A1XA104PJ630SS	Bulk
0.12 μ F	63V	10%	7.62mm	2222 367 15124	712A1AH124PK630ST	Bulk
0.12 μ F	63V	5%	7.62mm	2222 367 16124	712A1AH124PJ630ST	Bulk
0.12 μ F	63V	10%	5.08mm	2222 367 75124	712A1XA124PK630SS	Bulk
0.12 μ F	63V	5%	5.08mm	2222 367 76124	712A1XA124PJ630SS	Bulk
0.15 μ F	63V	10%	7.62mm	2222 367 15154	712A1AH154PK630ST	Bulk
0.15 μ F	63V	5%	7.62mm	2222 367 16154	712A1AH154PJ630ST	Bulk
0.15 μ F	63V	10%	5.08mm	2222 367 75154	712A1XB154PK630SS	Bulk
0.15 μ F	63V	5%	5.08mm	2222 367 76154	712A1XB154PJ630SS	Bulk
0.18 μ F	63V	10%	7.62mm	2222 367 15184	712A1AH184PK630ST	Bulk
0.18 μ F	63V	5%	7.62mm	2222 367 16184	712A1AH184PJ630ST	Bulk
0.18 μ F	63V	10%	5.08mm	2222 367 75184	712A1XC184PK630SS	Bulk
0.18 μ F	63V	5%	5.08mm	2222 367 76184	712A1XC184PJ630SS	Bulk
0.22 μ F	63V	10%	7.62mm	2222 367 15224	712A1AH224PK630ST	Bulk
0.22 μ F	63V	5%	7.62mm	2222 367 16224	712A1AH224PJ630ST	Bulk
0.22 μ F	63V	10%	5.08mm	2222 367 75224	712A1XC224PK630SS	Bulk
0.22 μ F	63V	5%	5.08mm	2222 367 76224	712A1XC224PJ630SS	Bulk
0.27 μ F	63V	10%	7.62mm	2222 367 15274	712A1AJ274PK630ST	Bulk
0.27 μ F	63V	5%	7.62mm	2222 367 16274	712A1AJ274PJ630ST	Bulk
0.27 μ F	63V	10%	5.08mm	2222 367 75274	712A1XD274PK630SS	Bulk
0.27 μ F	63V	5%	5.08mm	2222 367 76274	712A1XD274PJ630SS	Bulk
0.33 μ F	63V	10%	7.62mm	2222 367 15334	712A1AK334PK630ST	Bulk
0.33 μ F	63V	5%	7.62mm	2222 367 16334	712A1AK334PJ630ST	Bulk
0.33 μ F	63V	10%	5.08mm	2222 367 75334	712A1XG334PK630SS	Bulk
0.33 μ F	63V	5%	5.08mm	2222 367 76334	712A1XG334PJ630SS	Bulk
0.39 μ F	63V	10%	7.62mm	2222 367 15394	712A1AK394PK630ST	Bulk
0.39 μ F	63V	5%	7.62mm	2222 367 16394	712A1AK394PJ630ST	Bulk
0.39 μ F	63V	10%	5.08mm	2222 367 75474	712A1XF474PK630SS	Bulk
0.39 μ F	63V	5%	5.08mm	2222 367 76474	712A1XF474PJ630SS	Bulk
0.47 μ F	63V	10%	7.62mm	2222 367 15474	712A1AL474PK630ST	Bulk
0.47 μ F	63V	5%	7.62mm	2222 367 16474	712A1AL474PJ630ST	Bulk
0.47 μ F	63V	10%	5.08mm	2222 367 75394	712A1XE394PK630SS	Bulk
0.47 μ F	63V	5%	5.08mm	2222 367 76394	712A1XE394PJ630SS	Bulk
0.56 μ F	63V	10%	7.62mm	2222 367 15564	712A1AM564PK630ST	Bulk
0.56 μ F	63V	5%	7.62mm	2222 367 16564	712A1AM564PJ630ST	Bulk
0.56 μ F	63V	10%	5.08mm	2222 367 75564	712A1XH564PK630SS	Bulk
0.56 μ F	63V	5%	5.08mm	2222 367 76564	712A1XH564PJ630SS	Bulk
0.68 μ F	63V	10%	7.62mm	2222 367 15684	712A1AM684PK630ST	Bulk
0.68 μ F	63V	5%	7.62mm	2222 367 16684	712A1AM684PJ630ST	Bulk
0.68 μ F	63V	10%	5.08mm	2222 367 75684	712A1XE684PK630SS	Bulk
0.68 μ F	63V	5%	5.08mm	2222 367 76684	712A1XE684PJ630SS	Bulk

Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.82 μ F	63V	10%	7.62mm	2222 367 15824	712A1AM824PK630ST	Bulk
0.82 μ F	63V	5%	7.62mm	2222 367 16824	712A1AM824PJ630ST	Bulk
0.82 μ F	63V	10%	5.08mm	2222 367 75824	712A1XJ824PK630SS	Bulk
0.82 μ F	63V	5%	5.08mm	2222 367 76824	712A1XJ824PJ630SS	Bulk
1.0 μ F	63V	10%	7.62mm	2222 367 15105	712A1AM105PK630ST	Bulk
1.0 μ F	63V	5%	7.62mm	2222 367 16105	712A1AM105PJ630ST	Bulk
1.0 μ F	63V	10%	5.08mm	2222 367 75105	712A1XK105PK630SS	Bulk
1.0 μ F	63V	5%	5.08mm	2222 367 76105	712A1XK105PJ630SS	Bulk
0.010 μ F	100V	10%	5.08mm	2222 367 85103	712A1XC103PK101SS	Bulk
0.010 μ F	100V	5%	5.08mm	2222 367 86103	712A1XC103PJ101SS	Bulk
0.012 μ F	100V	10%	5.08mm	2222 367 85123	712A1XA123PK101SS	Bulk
0.012 μ F	100V	5%	5.08mm	2222 367 86123	712A1XA123PJ101SS	Bulk
0.015 μ F	100V	10%	5.08mm	2222 367 85153	712A1XA153PK101SS	Bulk
0.015 μ F	100V	5%	5.08mm	2222 367 86153	712A1XA153PJ101SS	Bulk
0.018 μ F	100V	10%	5.08mm	2222 367 85183	712A1XA183PK101SS	Bulk
0.018 μ F	100V	5%	5.08mm	2222 367 86183	712A1XA183PJ101SS	Bulk
0.022 μ F	100V	10%	5.08mm	2222 367 85223	712A1XA223PK101SS	Bulk
0.022 μ F	100V	5%	5.08mm	2222 367 86223	712A1XA223PJ101SS	Bulk
0.027 μ F	100V	10%	5.08mm	2222 367 85273	712A1XA273PK101SS	Bulk
0.027 μ F	100V	5%	5.08mm	2222 367 86273	712A1XA273PJ101SS	Bulk
0.033 μ F	100V	10%	5.08mm	2222 367 85333	712A1XA333PK101SS	Bulk
0.033 μ F	100V	5%	5.08mm	2222 367 86333	712A1XA333PJ101SS	Bulk
0.039 μ F	100V	10%	7.62mm	2222 367 25393	712A1AH393PK101ST	Bulk
0.039 μ F	100V	5%	7.62mm	2222 367 26393	712A1AH393PJ101ST	Bulk
0.039 μ F	100V	10%	5.08mm	2222 367 85393	712A1XA393PK101SS	Bulk
0.039 μ F	100V	5%	5.08mm	2222 367 86393	712A1XA393PJ101SS	Bulk
0.047 μ F	100V	10%	7.62mm	2222 367 25473	712A1AH473PK101ST	Bulk
0.047 μ F	100V	5%	7.62mm	2222 367 26473	712A1AH473PJ101ST	Bulk
0.047 μ F	100V	10%	5.08mm	2222 367 85473	712A1XA473PK101SS	Bulk
0.047 μ F	100V	5%	5.08mm	2222 367 86473	712A1XA473PJ101SS	Bulk
0.056 μ F	100V	10%	7.62mm	2222 367 25563	712A1AH563PK101ST	Bulk
0.056 μ F	100V	5%	7.62mm	2222 367 26563	712A1AH563PJ101ST	Bulk
0.056 μ F	100V	10%	5.08mm	2222 367 85563	712A1XA563PK101SS	Bulk
0.056 μ F	100V	5%	5.08mm	2222 367 86563	712A1XA563PJ101SS	Bulk
0.068 μ F	100V	10%	7.62mm	2222 367 25683	712A1AH683PK101ST	Bulk
0.068 μ F	100V	5%	7.62mm	2222 367 26683	712A1AH683PJ101ST	Bulk
0.068 μ F	100V	10%	5.08mm	2222 367 85683	712A1XA683PK101SS	Bulk
0.068 μ F	100V	5%	5.08mm	2222 367 86683	712A1XA683PJ101SS	Bulk
0.082 μ F	100V	10%	7.62mm	2222 367 25823	712A1AH823PK101ST	Bulk
0.082 μ F	100V	5%	7.62mm	2222 367 26823	712A1AH823PJ101ST	Bulk
0.082 μ F	100V	10%	5.08mm	2222 367 85823	712A1XB823PK101SS	Bulk
0.082 μ F	100V	5%	5.08mm	2222 367 86823	712A1XB823PJ101SS	Bulk
0.10 μ F	100V	10%	7.62mm	2222 367 25104	712A1AB104PK101ST	Bulk
0.10 μ F	100V	5%	7.62mm	2222 367 26104	712A1AB104PJ101ST	Bulk
0.10 μ F	100V	10%	5.08mm	2222 367 85104	712A1XA104PK101SS	Bulk
0.10 μ F	100V	5%	5.08mm	2222 367 86104	712A1XA104PJ101SS	Bulk
0.12 μ F	100V	10%	7.62mm	2222 367 25124	712A1AC124PK101ST	Bulk
0.12 μ F	100V	5%	7.62mm	2222 367 26124	712A1AC124PJ101ST	Bulk
0.15 μ F	100V	10%	7.62mm	2222 367 25154	712A1AD154PK101ST	Bulk
0.15 μ F	100V	5%	7.62mm	2222 367 26154	712A1AD154PJ101ST	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.18 μ F	100V	10%	7.62mm	2222 367 25184	712A1AD184PK101ST	Bulk
0.18 μ F	100V	5%	7.62mm	2222 367 26184	712A1AD184PJ101ST	Bulk
0.22 μ F	100V	10%	7.62mm	2222 367 25224	712A1AM224PK101ST	Bulk
0.22 μ F	100V	5%	7.62mm	2222 367 26224	712A1AM224PJ101ST	Bulk
0.27 μ F	100V	10%	7.62mm	2222 367 25274	712A1AF274PK101ST	Bulk
0.27 μ F	100V	5%	7.62mm	2222 367 26274	712A1AF274PJ101ST	Bulk
0.33 μ F	100V	10%	7.62mm	2222 367 25334	712A1AF334PK101ST	Bulk
0.33 μ F	100V	5%	7.62mm	2222 367 26334	712A1AF334PJ101ST	Bulk
0.39 μ F	100V	10%	7.62mm	2222 367 25394	712A1AF394PK101ST	Bulk
0.39 μ F	100V	5%	7.62mm	2222 367 26394	712A1AF394PJ101ST	Bulk
0.47 μ F	100V	10%	7.62mm	2222 367 25474	712A1AF474PK101ST	Bulk
0.47 μ F	100V	5%	7.62mm	2222 367 26474	712A1AF474PJ101ST	Bulk
0.018 μ F	250V	10%	7.62mm	2222 367 45183	712A1AB183PK251ST	Bulk
0.018 μ F	250V	5%	7.62mm	2222 367 46183	712A1AB183PJ251ST	Bulk
0.022 μ F	250V	10%	7.62mm	2222 367 45223	712A1AB223PK251ST	Bulk
0.022 μ F	250V	5%	7.62mm	2222 367 46223	712A1AB223PJ251ST	Bulk
0.027 μ F	250V	10%	7.62mm	2222 367 45273	712A1AB273PK251ST	Bulk
0.027 μ F	250V	5%	7.62mm	2222 367 46273	712A1AB273PJ251ST	Bulk
0.033 μ F	250V	10%	7.62mm	2222 367 45333	712A1AB333PK251ST	Bulk
0.033 μ F	250V	5%	7.62mm	2222 367 46333	712A1AB333PJ251ST	Bulk
0.039 μ F	250V	10%	7.62mm	2222 367 45393	712A1AB393PK251ST	Bulk
0.039 μ F	250V	5%	7.62mm	2222 367 46393	712A1AB393PJ251ST	Bulk
0.047 μ F	250V	10%	7.62mm	2222 367 45473	712A1AB473PK251ST	Bulk
0.047 μ F	250V	5%	7.62mm	2222 367 46473	712A1AB473PJ251ST	Bulk
0.0033 μ F	400V	10%	7.62mm	2222 367 55332	712A1AB332PK401ST	Bulk
0.0033 μ F	400V	5%	7.62mm	2222 367 56332	712A1AB332PJ401ST	Bulk
0.0039 μ F	400V	10%	7.62mm	2222 367 55392	712A1AB392PK401ST	Bulk
0.0039 μ F	400V	5%	7.62mm	2222 367 56392	712A1AB392PJ401ST	Bulk
0.0047 μ F	400V	10%	7.62mm	2222 367 55472	712A1AB472PK401ST	Bulk
0.0047 μ F	400V	5%	7.62mm	2222 367 56472	712A1AB472PJ401ST	Bulk
0.0056 μ F	400V	10%	7.62mm	2222 367 55562	712A1AB562PK401ST	Bulk
0.0056 μ F	400V	5%	7.62mm	2222 367 56562	712A1AB562PJ401ST	Bulk
0.0068 μ F	400V	10%	7.62mm	2222 367 55682	712A1AB682PK401ST	Bulk
0.0068 μ F	400V	5%	7.62mm	2222 367 56682	712A1AB682PJ401ST	Bulk
0.0082 μ F	400V	10%	7.62mm	2222 367 55822	712A1AB822PK401ST	Bulk
0.0082 μ F	400V	5%	5.08mm	2222 367 56822	712A1AB822PJ401ST	Bulk
0.010 μ F	400V	10%	7.62mm	2222 367 55103	712A1AB103PK401ST	Bulk
0.010 μ F	400V	5%	7.62mm	2222 367 56103	712A1AB103PJ401ST	Bulk
0.012 μ F	400V	10%	7.62mm	2222 367 55123	712A1AB123PK401ST	Bulk
0.012 μ F	400V	5%	7.62mm	2222 367 56123	712A1AB123PJ401ST	Bulk
0.015 μ F	400V	10%	7.62mm	2222 367 55153	712A1AB153PK401ST	Bulk
0.015 μ F	400V	5%	7.62mm	2222 367 56153	712A1AB153PJ401ST	Bulk

Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.22 μ F	63V	10%	10.16mm	2222 368 15224	712A1BC224PK630SK	Bulk
0.22 μ F	63V	5%	10.16mm	2222 368 16224	712A1BC224PJ630SK	Bulk
0.27 μ F	63V	10%	10.16mm	2222 368 15274	712A1BC274PK630SK	Bulk
0.27 μ F	63V	5%	10.16mm	2222 368 16274	712A1BC274PJ630SK	Bulk
0.33 μ F	63V	10%	10.16mm	2222 368 15334	712A1BC334PK630SK	Bulk
0.33 μ F	63V	5%	10.16mm	2222 368 16334	712A1BC334PJ630SK	Bulk
0.39 μ F	63V	10%	10.16mm	2222 368 15394	712A1BC394PK630SK	Bulk
0.39 μ F	63V	5%	10.16mm	2222 368 16394	712A1BC394PJ630SK	Bulk
0.47 μ F	63V	10%	10.16mm	2222 368 15474	712A1BD474PK630SK	Bulk
0.47 μ F	63V	5%	10.16mm	2222 368 16474	712A1BD474PJ630SK	Bulk
0.56 μ F	63V	10%	10.16mm	2222 368 15564	712A1BD564PK630SK	Bulk
0.56 μ F	63V	5%	10.16mm	2222 368 16564	712A1BD564PJ630SK	Bulk
0.68 μ F	63V	10%	10.16mm	2222 368 15684	712A1BE684PK630SK	Bulk
0.68 μ F	63V	5%	10.16mm	2222 368 16684	712A1BE684PJ630SK	Bulk
0.82 μ F	63V	10%	10.16mm	2222 368 15824	712A1BF824PK630SK	Bulk
0.82 μ F	63V	5%	10.16mm	2222 368 16824	712A1BF824PJ630SK	Bulk
1.0 μ F	63V	10%	10.16mm	2222 368 15105	712A1BG105PK630SK	Bulk
1.0 μ F	63V	5%	10.16mm	2222 368 16105	712A1BG105PJ630SK	Bulk
0.056 μ F	100V	10%	10.16mm	2222 368 25563	712A1BB563PK101SL	Bulk
0.056 μ F	100V	5%	10.16mm	2222 368 26563	712A1BB563PJ101SL	Bulk
0.068 μ F	100V	10%	10.16mm	2222 368 25683	712A1BB683PK101SK	Bulk
0.068 μ F	100V	5%	10.16mm	2222 368 26683	712A1BB683PJ101SK	Bulk
0.082 μ F	100V	10%	10.16mm	2222 368 25823	712A1BB823PK101LK	Bulk
0.082 μ F	100V	5%	10.16mm	2222 368 26823	712A1BB823PJ101LK	Bulk
0.10 μ F	100V	10%	10.16mm	2222 368 25104	712A1BB104PK101SK	Bulk
0.10 μ F	100V	5%	10.16mm	2222 368 26104	712A1BB104PJ101SK	Bulk
0.12 μ F	100V	10%	10.16mm	2222 368 25124	712A1BB124PK101SK	Bulk
0.12 μ F	100V	5%	10.16mm	2222 368 26124	712A1BB124PJ101SK	Bulk
0.15 μ F	100V	10%	10.16mm	2222 368 25154	712A1BB154PK101SK	Bulk
0.15 μ F	100V	5%	10.16mm	2222 368 26154	712A1BB154PJ101SK	Bulk
0.18 μ F	100V	10%	22.86mm	2222 368 25184	712A1BC184PK101SK	Bulk
0.18 μ F	100V	10%	10.16mm	2222 368 25224	712A1BD224PK101SK	Bulk
0.18 μ F	100V	5%	10.16mm	2222 368 26184	712A1BC184PJ101SK	Bulk
0.18 μ F	100V	5%	10.16mm	2222 368 26224	712A1BD224PJ101SK	Bulk
0.27 μ F	100V	10%	15.24mm	2222 368 25274	712A1GD274PK101SL	Bulk
0.27 μ F	100V	5%	15.24mm	2222 368 26274	712A1GD274PJ101SL	Bulk
0.33 μ F	100V	10%	15.24mm	2222 368 25334	712A1GD334PK101SL	Bulk
0.33 μ F	100V	5%	15.24mm	2222 368 26334	712A1GD334PJ101SL	Bulk
0.39 μ F	100V	10%	15.24mm	2222 368 25394	712A1GD394PK101SL	Bulk
0.39 μ F	100V	5%	15.24mm	2222 368 26394	712A1GD394PJ101SL	Bulk
0.47 μ F	100V	10%	15.24mm	2222 368 25474	712A1GE474PK101SL	Bulk
0.47 μ F	100V	5%	15.24mm	2222 368 26474	712A1GE474PJ101SL	Bulk
0.56 μ F	100V	10%	15.24mm	2222 368 25564	712A1GE564PK101SL	Bulk
0.56 μ F	100V	5%	15.24mm	2222 368 26564	712A1GE564PJ101SL	Bulk
0.68 μ F	100V	10%	15.24mm	2222 368 25684	712A1GF684PK101SL	Bulk
0.68 μ F	100V	5%	15.24mm	2222 368 26684	712A1GF684PJ101SL	Bulk
0.82 μ F	100V	10%	15.24mm	2222 368 25824	712A1GG824PK101SL	Bulk
0.82 μ F	100V	5%	15.24mm	2222 368 26824	712A1GG824PJ101SL	Bulk
1.0 μ F	100V	10%	15.24mm	2222 368 25105	712A1GJ105PK101SL	Bulk
1.0 μ F	100V	5%	15.24mm	2222 368 26105	712A1GJ105PJ101SL	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
1.2 μ F	100V	10%	22.86mm	2222 368 25125	712A1MF125PK101SF	Bulk
1.2 μ F	100V	5%	22.86mm	2222 368 26125	712A1MF125PJ101SF	Bulk
1.5 μ F	100V	10%	22.86mm	2222 368 25155	712A1MF155PK101SF	Bulk
1.5 μ F	100V	5%	22.86mm	2222 368 26155	712A1MF155PJ101SF	Bulk
1.8 μ F	100V	10%	22.86mm	2222 368 25185	712A1MF185PK101SF	Bulk
1.8 μ F	100V	5%	22.86mm	2222 368 26185	712A1MF185PJ101SF	Bulk
2.2 μ F	100V	10%	22.86mm	2222 368 25225	712A1MA225PK101SF	Bulk
2.2 μ F	100V	5%	22.86mm	2222 368 26225	712A1MA225PJ101SF	Bulk
2.7 μ F	100V	10%	22.86mm	2222 368 25275	712A1MB275PK101SF	Bulk
2.7 μ F	100V	5%	22.86mm	2222 368 26275	712A1MB275PJ101SF	Bulk
3.3 μ F	100V	10%	22.86mm	2222 368 25335	712A1MC335PK101SF	Bulk
3.3 μ F	100V	5%	22.86mm	2222 368 26335	712A1MC335PJ101SF	Bulk
3.9 μ F	100V	10%	27.94mm	2222 368 25395	712A1RL395PK101SN	Bulk
3.9 μ F	100V	5%	27.94mm	2222 368 26395	712A1RL395PJ101SN	Bulk
4.7 μ F	100V	10%	27.94mm	2222 368 25475	712A1RN475PK101SN	Bulk
4.7 μ F	100V	5%	27.94mm	2222 368 26475	712A1RN475PJ101SN	Bulk
5.6 μ F	100V	10%	27.94mm	2222 368 25565	712A1RM565PK101SN	Bulk
5.6 μ F	100V	5%	27.94mm	2222 368 26565	712A1RM565PJ101SN	Bulk
6.8 μ F	100V	10%	27.94mm	2222 368 25685	712A1RP685PK101SN	Bulk
6.8 μ F	100V	5%	27.94mm	2222 368 26685	712A1RP685PJ101SN	Bulk
0.027 μ F	250V	10%	10.16mm	2222 368 45273	712A1BB273PK251SK	Bulk
0.027 μ F	250V	5%	10.16mm	2222 368 46273	712A1BB273PJ251SK	Bulk
0.033 μ F	250V	10%	10.16mm	2222 368 45333	712A1BB333PK251SK	Bulk
0.033 μ F	250V	5%	10.16mm	2222 368 46333	712A1BB333PJ251SK	Bulk
0.039 μ F	250V	10%	10.16mm	2222 368 45393	712A1BB393PK251SK	Bulk
0.039 μ F	250V	5%	10.16mm	2222 368 46393	712A1BB393PJ251SK	Bulk
0.047 μ F	250V	10%	10.16mm	2222 368 45473	712A1BB473PK251SK	Bulk
0.047 μ F	250V	5%	10.16mm	2222 368 46473	712A1BB473PJ251SK	Bulk
0.056 μ F	250V	10%	10.16mm	2222 368 45563	712A1BC563PK251SK	Bulk
0.056 μ F	250V	5%	10.16mm	2222 368 46563	712A1BC563PJ251SK	Bulk
0.068 μ F	250V	10%	10.16mm	2222 368 45683	712A1BC683PK251SK	Bulk
0.068 μ F	250V	5%	10.16mm	2222 368 46683	712A1BC683PJ251SK	Bulk
0.082 μ F	250V	10%	10.16mm	2222 368 45823	712A1BD823PK251SK	Bulk
0.082 μ F	250V	5%	10.16mm	2222 368 46823	712A1BD823PJ251SK	Bulk
0.10 μ F	250V	10%	10.16mm	2222 368 45104	712A1BD104PK251SK	Bulk
0.10 μ F	250V	5%	10.16mm	2222 368 46104	712A1BD104PJ251SK	Bulk
0.12 μ F	250V	10%	15.24mm	2222 368 45124	712A1GD124PK251SL	Bulk
0.12 μ F	250V	5%	15.24mm	2222 368 46124	712A1GD124PJ251SL	Bulk
0.15 μ F	250V	10%	15.24mm	2222 368 45154	712A1GD154PK251SL	Bulk
0.15 μ F	250V	5%	15.24mm	2222 368 46154	712A1GD154PJ251SL	Bulk
0.18 μ F	250V	10%	15.24mm	2222 368 45184	712A1GE184PK251SL	Bulk
0.18 μ F	250V	5%	15.24mm	2222 368 46184	712A1GE184PJ251SL	Bulk
0.22 μ F	250V	10%	15.24mm	2222 368 45224	712A1GF224PK251SL	Bulk
0.22 μ F	250V	5%	15.24mm	2222 368 46224	712A1GF224PJ251SL	Bulk
0.27 μ F	250V	10%	15.24mm	2222 368 45274	712A1GG274PK251SL	Bulk
0.27 μ F	250V	5%	15.24mm	2222 368 46274	712A1GG274PJ251SL	Bulk
0.33 μ F	250V	10%	15.24mm	2222 368 45334	712A1GH334PK251SL	Bulk
0.33 μ F	250V	5%	15.24mm	2222 368 46334	712A1GH334PJ251SL	Bulk
0.39 μ F	250V	10%	22.86mm	2222 368 45394	712A1MD394PK251SF	Bulk
0.39 μ F	250V	5%	22.86mm	2222 368 46394	712A1MD394PJ251SF	Bulk

Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.47 μ F	250V	10%	22.86mm	2222 368 45474	712A1ME474PK251SF	Bulk
0.47 μ F	250V	5%	22.86mm	2222 368 46474	712A1ME474PJ251SF	Bulk
0.56 μ F	250V	10%	22.86mm	2222 368 45564	712A1MF564PK251SF	Bulk
0.56 μ F	250V	5%	22.86mm	2222 368 46564	712A1MF564PJ251SF	Bulk
0.68 μ F	250V	10%	22.86mm	2222 368 45684	712A1MG684PK251SF	Bulk
0.68 μ F	250V	5%	22.86mm	2222 368 46684	712A1MG684PJ251SF	Bulk
0.82 μ F	250V	10%	22.86mm	2222 368 45824	712A1MH824PK251SF	Bulk
0.82 μ F	250V	5%	22.86mm	2222 368 46824	712A1MH824PJ251SF	Bulk
1.0 μ F	250V	10%	22.86mm	2222 368 45105	712A1MJ105PK251SF	Bulk
1.0 μ F	250V	5%	22.86mm	2222 368 46105	712A1MJ105PJ251SF	Bulk
1.2 μ F	250V	10%	27.94mm	2222 368 45125	712A1RJ125PK251SN	Bulk
1.2 μ F	250V	5%	27.94mm	2222 368 46125	712A1RJ125PJ251SN	Bulk
1.5 μ F	250V	10%	27.94mm	2222 368 45155	712A1RL155PK251SN	Bulk
1.5 μ F	250V	5%	27.94mm	2222 368 46155	712A1RL155PJ251SN	Bulk
1.8 μ F	250V	10%	27.94mm	2222 368 45185	712A1RN185PK251SN	Bulk
1.8 μ F	250V	5%	27.94mm	2222 368 46185	712A1RN185PJ251SN	Bulk
2.2 μ F	250V	10%	27.94mm	2222 368 45225	712A1RM225PK251SN	Bulk
2.2 μ F	250V	5%	27.94mm	2222 368 46225	712A1RM225PJ251SN	Bulk
0.0010 μ F	400V	10%	10.16mm	2222 368 55102	712A1BB102PK401SK	Bulk
0.0010 μ F	400V	5%	10.16mm	2222 368 56102	712A1BB102PJ401SK	Bulk
0.0012 μ F	400V	10%	10.16mm	2222 368 55122	712A1BB122PK401SK	Bulk
0.0012 μ F	400V	5%	10.16mm	2222 368 56122	712A1BB122PJ401SK	Bulk
0.0015 μ F	400V	10%	10.16mm	2222 368 55152	712A1BB152PK401SK	Bulk
0.0015 μ F	400V	5%	10.16mm	2222 368 56152	712A1BB152PJ401SK	Bulk
0.0018 μ F	400V	10%	10.16mm	2222 368 55182	712A1BB182PK401SK	Bulk
0.0018 μ F	400V	5%	10.16mm	2222 368 56182	712A1BB182PJ401SK	Bulk
0.0022 μ F	400V	10%	10.16mm	2222 368 55222	712A1BB222PK401SK	Bulk
0.0022 μ F	400V	5%	10.16mm	2222 368 56222	712A1BB222PJ401SK	Bulk
0.0027 μ F	400V	10%	10.16mm	2222 368 55272	712A1BB272PK401SK	Bulk
0.0027 μ F	400V	5%	10.16mm	2222 368 56272	712A1BB272PJ401SK	Bulk
0.0033 μ F	400V	10%	10.16mm	2222 368 55332	712A1BB332PK401SK	Bulk
0.0033 μ F	400V	5%	10.16mm	2222 368 56332	712A1BB332PJ401SK	Bulk
0.0039 μ F	400V	10%	10.16mm	2222 368 55392	712A1BB392PK401SK	Bulk
0.0039 μ F	400V	5%	10.16mm	2222 368 56392	712A1BB392PJ401SK	Bulk
0.0047 μ F	400V	10%	10.16mm	2222 368 55472	712A1BB472PK401SK	Bulk
0.0047 μ F	400V	5%	10.16mm	2222 368 56472	712A1BB472PJ401SK	Bulk
0.0056 μ F	400V	10%	10.16mm	2222 368 55562	712A1BB562PK401SK	Bulk
0.0056 μ F	400V	5%	10.16mm	2222 368 56562	712A1BB562PJ401SK	Bulk
0.0068 μ F	400V	10%	10.16mm	2222 368 55682	712A1BB682PK401SN	Bulk
0.0068 μ F	400V	5%	10.16mm	2222 368 56682	712A1BB682PJ401SK	Bulk
0.0082 μ F	400V	10%	10.16mm	2222 368 55822	712A1BB822PK401SK	Bulk
0.0082 μ F	400V	5%	10.16mm	2222 368 56822	712A1BB822PJ401SK	Bulk
0.010 μ F	400V	10%	10.16mm	2222 368 55103	712A1BB103PK401SK	Bulk
0.010 μ F	400V	5%	10.16mm	2222 368 56103	712A1BB103PJ401SK	Bulk
0.012 μ F	400V	10%	10.16mm	2222 368 55123	712A1BB123PK401SK	Bulk
0.012 μ F	400V	5%	10.16mm	2222 368 56123	712A1BB123PJ401SK	Bulk
0.015 μ F	400V	10%	10.16mm	2222 368 55153	712A1BB153PK401SK	Bulk
0.015 μ F	400V	5%	10.16mm	2222 368 56153	712A1BB153PJ401SK	Bulk
0.018 μ F	400V	10%	10.16mm	2222 368 55183	712A1BB183PK401SK	Bulk
0.018 μ F	400V	5%	10.16mm	2222 368 56183	712A1BB183PJ401SK	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.022 μ F	400V	10%	10.16mm	2222 368 55223	712A1BB223PK401SK	Bulk
0.022 μ F	400V	5%	10.16mm	2222 368 56223	712A1BB223PJ401SK	Bulk
0.027 μ F	400V	10%	10.16mm	2222 368 55273	712A1BC273PK401SK	Bulk
0.027 μ F	400V	5%	10.16mm	2222 368 56273	712A1BC273PJ401SK	Bulk
0.033 μ F	400V	10%	10.16mm	2222 368 55333	712A1BC333PK401SK	Bulk
0.033 μ F	400V	5%	10.16mm	2222 368 56333	712A1BC333PJ401SK	Bulk
0.039 μ F	400V	10%	15.24mm	2222 368 55393	712A1GD393PK401SL	Bulk
0.039 μ F	400V	5%	15.24mm	2222 368 56393	712A1GD393PJ401SL	Bulk
0.047 μ F	400V	10%	15.24mm	2222 368 55473	712A1GD473PK401SL	Bulk
0.047 μ F	400V	5%	15.24mm	2222 368 56473	712A1GD473PJ401SL	Bulk
0.056 μ F	400V	10%	15.24mm	2222 368 55563	712A1GD562PK401SL	Bulk
0.056 μ F	400V	5%	15.24mm	2222 368 56563	712A1GD562PJ401SL	Bulk
0.068 μ F	400V	10%	15.24mm	2222 368 55683	712A1GD863PK401SL	Bulk
0.068 μ F	400V	5%	15.24mm	2222 368 56683	712A1GD863PJ401SL	Bulk
0.082 μ F	400V	10%	15.24mm	2222 368 55823	712A1GE823PK401SL	Bulk
0.082 μ F	400V	5%	15.24mm	2222 368 56823	712A1GE823PJ401SL	Bulk
0.10 μ F	400V	10%	15.24mm	2222 368 55104	712A1GF104PK401SL	Bulk
0.10 μ F	400V	5%	15.24mm	2222 368 56104	712A1GF104PJ401SL	Bulk
0.12 μ F	400V	10%	15.24mm	2222 368 55124	712A1GG124PK401SL	Bulk
0.12 μ F	400V	5%	15.24mm	2222 368 56124	712A1GG124PJ401SL	Bulk
0.15 μ F	400V	10%	15.24mm	2222 368 55154	712A1GH154PK401SL	Bulk
0.15 μ F	400V	5%	15.24mm	2222 368 56154	712A1GH154PJ401SL	Bulk
0.18 μ F	400V	10%	22.86mm	2222 368 55184	712A1ME184PK401SF	Bulk
0.18 μ F	400V	5%	22.86mm	2222 368 56184	712A1ME184PJ401SF	Bulk
0.22 μ F	400V	10%	22.86mm	2222 368 55224	712A1MF224PK401SF	Bulk
0.22 μ F	400V	5%	22.86mm	2222 368 56224	712A1MF224PJ401SF	Bulk
0.27 μ F	400V	10%	22.86mm	2222 368 55274	712A1MG274PK401SF	Bulk
0.27 μ F	400V	5%	22.86mm	2222 368 56274	712A1MG274PJ401SF	Bulk
0.33 μ F	400V	10%	22.86mm	2222 368 55334	712A1MN334PK401SF	Bulk
0.33 μ F	400V	5%	22.86mm	2222 368 56334	712A1MN334PJ401SF	Bulk
0.39 μ F	400V	10%	22.86mm	2222 368 55394	712A1MB394PK401SF	Bulk
0.39 μ F	400V	5%	22.86mm	2222 368 56394	712A1MB394PJ401SF	Bulk
0.47 μ F	400V	10%	22.86mm	2222 368 55474	712A1MK474PK401SF	Bulk
0.47 μ F	400V	5%	22.86mm	2222 368 56474	712A1MK474PJ401SF	Bulk
0.56 μ F	400V	10%	27.94mm	2222 368 55564	712A1RK564PK401SN	Bulk
0.56 μ F	400V	5%	27.94mm	2222 368 56564	712A1RK564PJ401SN	Bulk
0.68 μ F	400V	10%	27.94mm	2222 368 55684	712A1RL684PK401SN	Bulk
0.68 μ F	400V	5%	27.94mm	2222 368 56684	712A1RL684PJ401SN	Bulk
0.82 μ F	400V	10%	27.94mm	2222 368 55824	712A1RN824PK401SN	Bulk
0.82 μ F	400V	5%	27.94mm	2222 368 56824	712A1RN824PJ401SN	Bulk
1.0 μ F	400V	10%	27.94mm	2222 368 55105	712A1RS105PK401SN	Bulk
1.0 μ F	400V	5%	27.94mm	2222 368 56105	712A1RS105PJ401SN	Bulk
0.01 μ F	630V	10%	10.16mm	2222 368 65103	712A1BC103PK631SK	Bulk
0.01 μ F	630V	5%	10.16mm	2222 368 66103	712A1BC103PJ631SK	Bulk
0.012 μ F	630V	10%	10.16mm	2222 368 65123	712A1BD123PK631SK	Bulk
0.012 μ F	630V	5%	10.16mm	2222 368 66123	712A1BD123PJ631SK	Bulk
0.015 μ F	630V	10%	10.16mm	2222 368 65153	712A1BE153PK631SK	Bulk
0.015 μ F	630V	5%	10.16mm	2222 368 66153	712A1BE153PJ631SK	Bulk
0.018 μ F	630V	10%	10.16mm	2222 368 65183	712A1BF183PK631SK	Bulk
0.018 μ F	630V	5%	10.16mm	2222 368 66183	712A1BF183PJ631SK	Bulk

Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.022 μ F	630V	10%	10.16mm	2222 368 65223	712A1BG223PK631SK	Bulk
0.022 μ F	630V	5%	10.16mm	2222 368 66223	712A1BG223PJ631SK	Bulk
0.027 μ F	630V	10%	15.24mm	2222 368 65273	712A1GE273PK631SL	Bulk
0.027 μ F	630V	5%	15.24mm	2222 368 66273	712A1GE273PJ631SL	Bulk
0.033 μ F	630V	10%	15.24mm	2222 368 65333	712A1GF333PK631SL	Bulk
0.033 μ F	630V	5%	15.24mm	2222 368 66333	712A1GF333PJ631SL	Bulk
0.039 μ F	630V	10%	15.24mm	2222 368 65393	712A1GG393PK631SL	Bulk
0.039 μ F	630V	5%	15.24mm	2222 368 66393	712A1GG393PJ631SL	Bulk
0.047 μ F	630V	10%	15.24mm	2222 368 65473	712A1GH473PK631SL	Bulk
0.047 μ F	630V	5%	15.24mm	2222 368 66473	712A1GH473PJ631SL	Bulk
0.056 μ F	630V	10%	15.24mm	2222 368 65563	712A1GI563PK631SL	Bulk
0.056 μ F	630V	5%	15.24mm	2222 368 66563	712A1GI563PJ631SL	Bulk
0.068 μ F	630V	10%	15.24mm	2222 368 65683	712A1GK683PK631SL	Bulk
0.068 μ F	630V	5%	15.24mm	2222 368 66683	712A1GK683PJ631SL	Bulk
0.082 μ F	630V	10%	22.86mm	2222 368 65823	712A1ME823PK631SF	Bulk
0.082 μ F	630V	5%	22.86mm	2222 368 66823	712A1ME823PJ631SF	Bulk
0.10 μ F	630V	10%	22.86mm	2222 368 65104	712A1MF104PK631SF	Bulk
0.10 μ F	630V	5%	27.94mm	2222 368 66104	712A1MF104PJ631SF	Bulk
0.12 μ F	630V	10%	22.86mm	2222 368 65124	712A1MH124PK631SF	Bulk
0.12 μ F	630V	5%	22.86mm	2222 368 66124	712A1MH124PJ631SF	Bulk
0.15 μ F	630V	10%	22.86mm	2222 368 65154	712A1MJ154PK631SF	Bulk
0.15 μ F	630V	5%	22.86mm	2222 368 66154	712A1MJ154PJ631SF	Bulk
0.18 μ F	630V	10%	22.86mm	2222 368 65184	712A1ML184PK631SF	Bulk
0.18 μ F	630V	5%	22.86mm	2222 368 66184	712A1ML184PJ631SF	Bulk
0.22 μ F	630V	10%	22.86mm	2222 368 65224	712A1MM224PK631SF	Bulk
0.22 μ F	630V	5%	22.86mm	2222 368 66224	712A1MM224PJ631SF	Bulk
0.27 μ F	630V	10%	27.94mm	2222 368 65274	712A1RT274PK631SN	Bulk
0.27 μ F	630V	5%	27.94mm	2222 368 66274	712A1RT274PJ631SN	Bulk
0.33 μ F	630V	10%	27.94mm	2222 368 65334	712A1RR334PK631SN	Bulk
0.33 μ F	630V	5%	27.94mm	2222 368 66334	712A1RR334PJ631SN	Bulk
0.39 μ F	630V	10%	27.94mm	2222 368 65394	712A1RS394PK631SN	Bulk
0.39 μ F	630V	5%	27.94mm	2222 368 66394	712A1RS394PJ631SN	Bulk
0.47 μ F	630V	10%	27.94mm	2222 368 65474	712A1RU474PK631SN	Bulk
0.47 μ F	630V	5%	27.94mm	2222 368 66474	712A1RU474PJ631SN	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.22 μ F	63V	10%	10.16mm	2222 369 15224	712A1BC224PK630SA	Bulk
0.22 μ F	63V	5%	10.16mm	2222 369 16224	712A1BC224PJ630SA	Bulk
0.27 μ F	63V	10%	10.16mm	2222 369 15274	712A1BC274PK630SA	Bulk
0.27 μ F	63V	5%	10.16mm	2222 369 16274	712A1BC274PJ630SA	Bulk
0.33 μ F	63V	10%	10.16mm	2222 369 15334	712A1BC334PK630SA	Bulk
0.33 μ F	63V	5%	10.16mm	2222 369 16334	712A1BC334PJ630SA	Bulk
0.39 μ F	63V	10%	10.16mm	2222 369 15394	712A1BC394PK630SA	Bulk
0.39 μ F	63V	5%	10.16mm	2222 369 16394	712A1BC394PJ630SA	Bulk
0.47 μ F	63V	10%	10.16mm	2222 369 15474	712A1BD474PK630SA	Bulk
0.47 μ F	63V	5%	10.16mm	2222 369 16474	712A1BD474PJ630SA	Bulk
0.56 μ F	63V	10%	10.16mm	2222 369 15564	712A1BD564PK630SA	Bulk
0.56 μ F	63V	5%	10.16mm	2222 369 16564	712A1BD564PJ630SA	Bulk
0.68 μ F	63V	10%	10.16mm	2222 369 15684	712A1BE684PK630SA	Bulk
0.68 μ F	63V	5%	10.16mm	2222 369 16684	712A1BE684PJ630SA	Bulk
0.82 μ F	63V	10%	10.16mm	2222 369 15824	712A1BF224PK630SA	Bulk
0.82 μ F	63V	5%	10.16mm	2222 369 16824	712A1BF224PJ630SA	Bulk
1.0 μ F	63V	10%	10.16mm	2222 369 15105	712A1BG105PK630SA	Bulk
1.0 μ F	63V	5%	10.16mm	2222 369 16105	712A1BG105PJ630SA	Bulk
0.056 μ F	100V	10%	10.16mm	2222 369 25563	712A1BB563PK101SA	Bulk
0.056 μ F	100V	5%	10.16mm	2222 369 26563	712A1BB563PJ101SA	Bulk
0.068 μ F	100V	10%	10.16mm	2222 369 25683	712A1BB683PK101SA	Bulk
0.068 μ F	100V	5%	10.16mm	2222 369 26683	712A1BB683PJ101SA	Bulk
0.082 μ F	100V	10%	10.16mm	2222 369 25823	712A1BB823PK101SA	Bulk
0.082 μ F	100V	5%	10.16mm	2222 369 26823	712A1BB823PJ101SA	Bulk
0.10 μ F	100V	10%	10.16mm	2222 369 25104	712A1BB104PK101SA	Bulk
0.10 μ F	100V	5%	10.16mm	2222 369 26104	712A1BB104PJ101SA	Bulk
0.12 μ F	100V	10%	10.16mm	2222 369 25124	712A1BB124PK101SA	Bulk
0.12 μ F	100V	5%	10.16mm	2222 369 26124	712A1BB124PJ101SA	Bulk
0.15 μ F	100V	10%	10.16mm	2222 369 25154	712A1BB154PK101SA	Bulk
0.15 μ F	100V	5%	10.16mm	2222 369 26154	712A1BB154PJ101SA	Bulk
0.18 μ F	100V	10%	10.16mm	2222 369 25184	712A1BC184PK101SA	Bulk
0.18 μ F	100V	5%	10.16mm	2222 369 26184	712A1BC184PJ101SA	Bulk
0.027 μ F	250V	10%	10.16mm	2222 369 45273	712A1BB273PK251SA	Bulk
0.027 μ F	250V	5%	10.16mm	2222 369 46273	712A1BB273PJ251SA	Bulk
0.033 μ F	250V	10%	10.16mm	2222 369 45333	712A1BB333PK251SA	Bulk
0.033 μ F	250V	5%	10.16mm	2222 369 46333	712A1BB333PJ251SA	Bulk
0.039 μ F	250V	10%	10.16mm	2222 369 45393	712A1BB393PK251SA	Bulk
0.039 μ F	250V	5%	10.16mm	2222 369 46393	712A1BB393PJ251SA	Bulk
0.047 μ F	250V	10%	10.16mm	2222 369 45473	712A1BB473PK251SA	Bulk
0.047 μ F	250V	5%	10.16mm	2222 369 46473	712A1BB473PJ251SA	Bulk
0.056 μ F	250V	10%	10.16mm	2222 369 45563	712A1BC563PK251SA	Bulk
0.056 μ F	250V	5%	10.16mm	2222 369 46563	712A1BC563PJ251SA	Bulk
0.068 μ F	250V	10%	10.16mm	2222 369 45683	712A1BC683PK251SA	Bulk
0.068 μ F	250V	5%	10.16mm	2222 369 46683	712A1BC683PJ251SA	Bulk
0.082 μ F	250V	10%	10.16mm	2222 369 45823	712A1BD823PK251SA	Bulk
0.082 μ F	250V	5%	10.16mm	2222 369 46823	712A1BD823PJ251SA	Bulk
0.10 μ F	250V	10%	10.16mm	2222 369 45104	712A1BD104PK251SA	Bulk
0.10 μ F	250V	5%	10.16mm	2222 369 46104	712A1BD104PJ251SA	Bulk

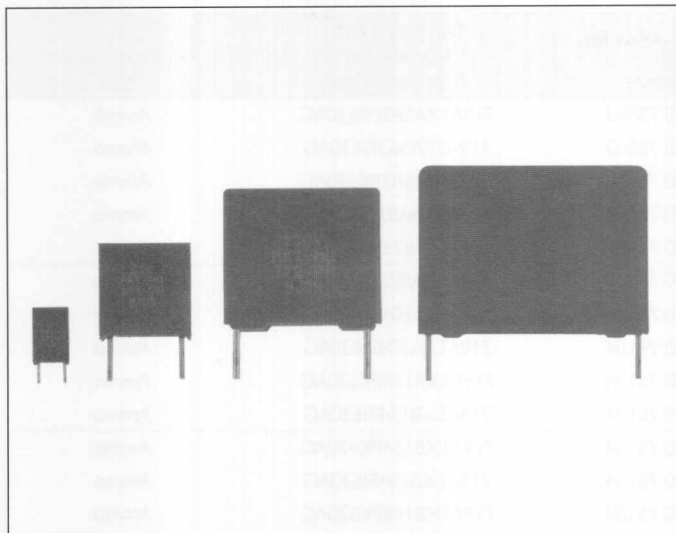
Film Capacitors

General Purpose Epoxy Dip

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.0010 μ F	400V	10%	10.16mm	2222 369 55102	712A1BB102PK401SA	Bulk
0.0010 μ F	400V	5%	10.16mm	2222 369 56102	712A1BB102PJ401SA	Bulk
0.0012 μ F	400V	10%	10.16mm	2222 369 55122	712A1BB122PK401SA	Bulk
0.0012 μ F	400V	5%	10.16mm	2222 369 56122	712A1BB122PJ401SA	Bulk
0.0015 μ F	400V	10%	10.16mm	2222 369 55152	712A1BB152PK401SA	Bulk
0.0015 μ F	400V	5%	10.16mm	2222 369 56152	712A1BB152PJ401SA	Bulk
0.0018 μ F	400V	10%	10.16mm	2222 369 55182	712A1BB182PK401SA	Bulk
0.0018 μ F	400V	5%	10.16mm	2222 369 56182	712A1BB182PJ401SA	Bulk
0.0022 μ F	400V	10%	10.16mm	2222 369 55222	712A1BB222PK401SA	Bulk
0.0022 μ F	400V	5%	10.16mm	2222 369 56222	712A1BB222PJ401SA	Bulk
0.0027 μ F	400V	10%	10.16mm	2222 369 55272	712A1BB272PK401SA	Bulk
0.0027 μ F	400V	5%	10.16mm	2222 369 56272	712A1BB272PJ401SA	Bulk
0.0033 μ F	400V	10%	10.16mm	2222 369 55332	712A1BB332PK401SA	Bulk
0.0033 μ F	400V	5%	10.16mm	2222 369 56332	712A1BB332PJ401SA	Bulk
0.0039 μ F	400V	10%	10.16mm	2222 369 55392	712A1BB392PK401SA	Bulk
0.0039 μ F	400V	5%	10.16mm	2222 369 56392	712A1BB392PJ401SA	Bulk
0.0047 μ F	400V	10%	10.16mm	2222 369 55472	712A1BB472PK401SA	Bulk
0.0047 μ F	400V	5%	10.16mm	2222 369 56472	712A1BB472PJ401SA	Bulk
0.0056 μ F	400V	10%	10.16mm	2222 369 55562	712A1BB562PK401SA	Bulk
0.0056 μ F	400V	5%	10.16mm	2222 369 56562	712A1BB562PJ401SA	Bulk
0.0068 μ F	400V	10%	10.16mm	2222 369 55682	712A1BB682PK401SA	Bulk
0.0068 μ F	400V	5%	10.16mm	2222 369 56682	712A1BB682PJ401SA	Bulk
0.0082 μ F	400V	10%	10.16mm	2222 369 55822	712A1BB822PK401SA	Bulk
0.0082 μ F	400V	5%	10.16mm	2222 369 56822	712A1BB822PJ401SA	Bulk
0.010 μ F	400V	10%	10.16mm	2222 369 55103	712A1BB103PK401SA	Bulk
0.010 μ F	400V	5%	10.16mm	2222 369 56103	712A1BB103PJ401SA	Bulk
0.012 μ F	400V	10%	10.16mm	2222 369 55123	712A1BB123PK401SA	Bulk
0.012 μ F	400V	5%	10.16mm	2222 369 56123	712A1BB123PJ401SA	Bulk
0.015 μ F	400V	10%	10.16mm	2222 369 55153	712A1BB153PK401SA	Bulk
0.015 μ F	400V	5%	10.16mm	2222 369 56153	712A1BB153PJ401SA	Bulk
0.018 μ F	400V	10%	10.16mm	2222 369 55183	712A1BB183PK401SA	Bulk
0.018 μ F	400V	5%	10.16mm	2222 369 56183	712A1BB183PJ401SA	Bulk
0.022 μ F	400V	10%	10.16mm	2222 369 55223	712A1BB223PK401SA	Bulk
0.022 μ F	400V	5%	10.16mm	2222 369 56223	712A1BB223PJ401SA	Bulk
0.027 μ F	400V	10%	10.16mm	2222 369 55273	712A1BC273PK401SA	Bulk
0.027 μ F	400V	5%	10.16mm	2222 369 56273	712A1BC273PJ401SA	Bulk
0.033 μ F	400V	10%	10.16mm	2222 369 55333	712A1BC333PK401SA	Bulk
0.033 μ F	400V	5%	10.16mm	2222 369 56333	712A1BC333PJ401SA	Bulk
0.010 μ F	630V	10%	10.16mm	2222 369 65103	712A1BC103PK631SA	Bulk
0.010 μ F	630V	5%	10.16mm	2222 369 66103	712A1BC103PJ631SA	Bulk
0.012 μ F	630V	10%	10.16mm	2222 369 65123	712A1BD123PK631SA	Bulk
0.012 μ F	630V	5%	10.16mm	2222 369 66123	712A1BD123PJ631SA	Bulk
0.015 μ F	630V	10%	10.16mm	2222 369 65153	712A1BE153PK631SA	Bulk
0.015 μ F	630V	5%	10.16mm	2222 369 66153	712A1BE153PJ631SA	Bulk
0.018 μ F	630V	10%	10.16mm	2222 369 65183	712A1BF183PK631SA	Bulk
0.018 μ F	630V	5%	10.16mm	2222 369 66183	712A1BF183PJ631SA	Bulk
0.022 μ F	630V	10%	10.16mm	2222 369 65223	712A1BG223PK631SA	Bulk
0.022 μ F	630V	5%	10.16mm	2222 369 66223	712A1BG223PJ631SA	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.



Series 2222 370/371/372/373 General Purpose Film Capacitor (Radial Potted Box)

Features

- Low inductive wound cell of metallized film
- Potted with epoxy resin in flame retardant case
- Radial leads of solder coated wire
- Withstands solvents and D rinsing liquids
- Small stand-off to allow removal of solder flux
- Suitable for high density packaging
- Bulk, tape and reel, ammo pak (restrictions apply)

Marking (Typical)

Parts are marked with Cap code, Tol, Voltage, Year and Week of Mfg, Code for Dielectric Material, Code for Factory of Origin, Mfg Type Designation, Mfg

General

Cap Range	0.001 to 15 μ F
Cap Tolerance	$\pm 10\%$, $\pm 5\%$
Rated Voltage (DC)	63V, 100V, 250V, 400V
Max App Temperature	100°C
Rated Temperature	85°C
Reference Spec	IEC384-2, DIN 44122, DIN 45910
	Draft
Performance Grade	Grade 1 (Long Life)
Qualified	CECC 30 401-801
Climatic Category	55/100/56

Applications

- Blocking and coupling
- Bypass and energy storage

Film Capacitor General Purpose Box

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.056 μ F	63V	10%	5.08mm	2222 370 75563	719A1XA563PK630AG	Ammo
0.056 μ F	63V	5%	5.08mm	2222 370 76563	719A1XA563PJ630AG	Ammo
0.068 μ F	63V	10%	5.08mm	2222 370 75683	719A1XA683PK630AG	Ammo
0.068 μ F	63V	5%	5.08mm	2222 370 76683	719A1XA683PJ630AG	Ammo
0.082 μ F	63V	10%	5.08mm	2222 370 75823	719A1XA823PK630AG	Ammo
0.082 μ F	63V	5%	5.08mm	2222 370 76823	719A1XA823PJ630AG	Ammo
0.10 μ F	63V	10%	5.08mm	2222 370 75104	719A1XA104PK630AG	Ammo
0.10 μ F	63V	5%	5.08mm	2222 370 76104	719A1XA104PJ630AG	Ammo
0.12 μ F	63V	10%	5.08mm	2222 370 75124	719A1XB124PK630AG	Ammo
0.12 μ F	63V	5%	5.08mm	2222 370 76124	719A1XB124PJ630AG	Ammo
0.15 μ F	63V	10%	5.08mm	2222 370 75154	719A1XB154PK630AG	Ammo
0.15 μ F	63V	5%	5.08mm	2222 370 76154	719A1XB154PJ630AG	Ammo
0.18 μ F	63V	10%	5.08mm	2222 370 75184	719A1XB184PK630AG	Ammo
0.18 μ F	63V	5%	5.08mm	2222 370 76184	719A1XB184PJ630AG	Ammo
0.22 μ F	63V	10%	5.08mm	2222 370 75224	719A1XB224PK630AG	Ammo
0.22 μ F	63V	5%	5.08mm	2222 370 76224	719A1XB224PJ630AG	Ammo
0.27 μ F	63V	10%	5.08mm	2222 370 75274	719A1XB274PK630AG	Ammo
0.27 μ F	63V	5%	5.08mm	2222 370 76274	719A1XB274PJ630AG	Ammo
0.33 μ F	63V	10%	5.08mm	2222 370 75334	719A1XB334PK630AG	Ammo
0.33 μ F	63V	5%	5.08mm	2222 370 76334	719A1XB334PJ630AG	Ammo
0.39 μ F	63V	10%	5.08mm	2222 370 75394	719A1XC394PK630AG	Ammo
0.39 μ F	63V	5%	5.08mm	2222 370 76394	719A1XC394PJ630AG	Ammo
0.47 μ F	63V	10%	5.08mm	2222 370 75474	719A1XC474PK630AG	Ammo
0.47 μ F	63V	5%	5.08mm	2222 370 76474	719A1XC474PJ630AG	Ammo
0.56 μ F	63V	10%	5.08mm	2222 370 75564	719A1XD564PK630AG	Ammo
0.56 μ F	63V	5%	5.08mm	2222 370 76564	719A1XD564PJ630AG	Ammo
0.68 μ F	63V	10%	5.08mm	2222 370 75684	719A1XD684PK630AG	Ammo
0.68 μ F	63V	5%	5.08mm	2222 370 76684	719A1XD684PJ630AG	Ammo
0.82 μ F	63V	10%	5.08mm	2222 370 75824	719A1XE824PK630AG	Ammo
0.82 μ F	63V	5%	5.08mm	2222 370 76824	719A1XE824PJ630AG	Ammo
1.0 μ F	63V	10%	5.08mm	2222 370 75105	719A1XE105PK630AG	Ammo
1.0 μ F	63V	5%	5.08mm	2222 370 76105	719A1XE105PJ630AG	Ammo
0.012 μ F	100V	10%	5.08mm	2222 370 85123	719A1XA123PK101AG	Ammo
0.012 μ F	100V	5%	5.08mm	2222 370 86123	719A1XA123PJ101AG	Ammo
0.015 μ F	100V	10%	5.08mm	2222 370 85153	719A1XA153PK101AG	Ammo
0.015 μ F	100V	5%	5.08mm	2222 370 86153	719A1XA153PJ101AG	Ammo
0.018 μ F	100V	10%	5.08mm	2222 370 85183	719A1XA183PK101AG	Ammo
0.018 μ F	100V	5%	5.08mm	2222 370 86183	719A1XA183PJ101AG	Ammo
0.022 μ F	100V	10%	5.08mm	2222 370 85223	719A1XA223PK101AG	Ammo
0.022 μ F	100V	5%	5.08mm	2222 370 86223	719A1XA223PJ101AG	Ammo
0.027 μ F	100V	10%	5.08mm	2222 370 85273	719A1XA273PK101AG	Ammo
0.027 μ F	100V	5%	5.08mm	2222 370 86273	719A1XA273PJ101AG	Ammo
0.033 μ F	100V	10%	5.08mm	2222 370 85333	719A1XA333PK101AG	Ammo
0.033 μ F	100V	5%	5.08mm	2222 370 86333	719A1XA333PJ101AG	Ammo
0.039 μ F	100V	10%	5.08mm	2222 370 85393	719A1XA393PK101AG	Ammo
0.039 μ F	100V	5%	5.08mm	2222 370 86393	719A1XA393PJ101AG	Ammo
0.047 μ F	100V	10%	5.08mm	2222 370 85473	719A1XA473PK101AG	Ammo
0.047 μ F	100V	5%	5.08mm	2222 370 86473	719A1XA473PJ101AG	Ammo
0.056 μ F	100V	10%	5.08mm	2222 370 85563	719A1XB563PK101AG	Ammo
0.056 μ F	100V	5%	5.08mm	2222 370 86563	719A1XB563PJ101AG	Ammo

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.068 μ F	100V	10%	5.08mm	2222 370 85683	719A1XB683PK101AG	Ammo
0.068 μ F	100V	5%	5.08mm	2222 370 86683	719A1XB683PJ101AG	Ammo
0.082 μ F	100V	10%	5.08mm	2222 370 85823	719A1XB823PK101AG	Ammo
0.082 μ F	100V	5%	5.08mm	2222 370 86823	719A1XB823PJ101AG	Ammo
0.10 μ F	100V	10%	5.08mm	2222 370 85104	719A1XB104PK101AG	Ammo
0.10 μ F	100V	5%	5.08mm	2222 370 86104	719A1XB104PJ101AG	Ammo
0.12 μ F	100V	10%	5.08mm	2222 370 85124	719A1XC124PK101AG	Ammo
0.12 μ F	100V	5%	5.08mm	2222 370 86124	719A1XC124PJ101AG	Ammo
0.15 μ F	100V	10%	5.08mm	2222 370 85154	719A1XC154PK101AG	Ammo
0.15 μ F	100V	5%	5.08mm	2222 370 86154	719A1XC154PJ101AG	Ammo
0.18 μ F	100V	10%	5.08mm	2222 370 85184	719A1XD184PK101AG	Ammo
0.18 μ F	100V	5%	5.08mm	2222 370 86184	719A1XD184PJ101AG	Ammo
0.22 μ F	100V	10%	5.08mm	2222 370 85224	719A1XD224PK101AG	Ammo
0.22 μ F	100V	5%	5.08mm	2222 370 86224	719A1XD224PJ101AG	Ammo
0.27 μ F	100V	10%	5.08mm	2222 370 85274	719A1XE274PK101AG	Ammo
0.27 μ F	100V	5%	5.08mm	2222 370 86274	719A1XE274PJ101AG	Ammo
0.33 μ F	100V	10%	5.08mm	2222 370 85334	719A1XE334PK101AG	Ammo
0.33 μ F	100V	5%	5.08mm	2222 370 86334	719A1XE334PJ101AG	Ammo
0.0039 μ F	250V	10%	5.08mm	2222 370 35392	719A1XA392PK251AG	Ammo
0.0039 μ F	250V	5%	5.08mm	2222 370 36392	719A1XA392PJ251AG	Ammo
0.0047 μ F	250V	10%	5.08mm	2222 370 35472	719A1XA472PK251AG	Ammo
0.0047 μ F	250V	5%	5.08mm	2222 370 36472	719A1XA472PJ251AG	Ammo
0.0056 μ F	250V	10%	5.08mm	2222 370 35562	719A1XA562PK251AG	Ammo
0.0056 μ F	250V	5%	5.08mm	2222 370 36562	719A1XA562PJ251AG	Ammo
0.0068 μ F	250V	10%	5.08mm	2222 370 35682	719A1XA682PK251AG	Ammo
0.0068 μ F	250V	5%	5.08mm	2222 370 36682	719A1XA682PJ251AG	Ammo
0.0082 μ F	250V	10%	5.08mm	2222 370 35822	719A1XA822PK251AG	Ammo
0.0082 μ F	250V	5%	5.08mm	2222 370 36822	719A1XA822PJ251AG	Ammo
0.010 μ F	250V	10%	5.08mm	2222 370 35103	719A1XA103PK251AG	Ammo
0.010 μ F	250V	5%	5.08mm	2222 370 36103	719A1XA103PJ251AG	Ammo
0.012 μ F	250V	10%	5.08mm	2222 370 35123	719A1XB123PK251AG	Ammo
0.012 μ F	250V	5%	5.08mm	2222 370 36123	719A1XB123PJ251AG	Ammo
0.015 μ F	250V	10%	5.08mm	2222 370 35153	719A1XB153PK251AG	Ammo
0.015 μ F	250V	5%	5.08mm	2222 370 36153	719A1XB153PJ251AG	Ammo
0.018 μ F	250V	10%	5.08mm	2222 370 35183	719A1XB183PK251AG	Ammo
0.018 μ F	250V	5%	5.08mm	2222 370 36183	719A1XB183PJ251AG	Ammo
0.022 μ F	250V	10%	5.08mm	2222 370 35223	719A1XB223PK251AG	Ammo
0.022 μ F	250V	5%	5.08mm	2222 370 36223	719A1XB223PJ251AG	Ammo
0.027 μ F	250V	10%	5.08mm	2222 370 35273	719A1XB273PK251AG	Ammo
0.027 μ F	250V	5%	5.08mm	2222 370 36273	719A1XB273PJ251AG	Ammo
0.033 μ F	250V	10%	5.08mm	2222 370 35333	719A1XB333PK251AG	Ammo
0.033 μ F	250V	5%	5.08mm	2222 370 36333	719A1XB333PJ251AG	Ammo
0.039 μ F	250V	10%	5.08mm	2222 370 35393	719A1XC393PK251AG	Ammo
0.039 μ F	250V	5%	5.08mm	2222 370 36393	719A1XC393PJ251AG	Ammo
0.047 μ F	250V	10%	5.08mm	2222 370 35473	719A1XC473PK251AG	Ammo
0.047 μ F	250V	5%	5.08mm	2222 370 36473	719A1XC473PJ251AG	Ammo
0.056 μ F	250V	10%	5.08mm	2222 370 35563	719A1XC563PK251AG	Ammo
0.056 μ F	250V	5%	5.08mm	2222 370 36563	719A1XC563PJ251AG	Ammo
0.068 μ F	250V	10%	5.08mm	2222 370 35683	719A1XD683PK251AG	Ammo
0.068 μ F	250V	5%	5.08mm	2222 370 36683	719A1XD683PJ251AG	Ammo

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.082 μ F	250V	10%	5.08mm	2222 370 35823	719A1XE823PK251AG	Ammo
0.082 μ F	250V	5%	5.08mm	2222 370 36823	719A1XE823PJ251AG	Ammo
0.10 μ F	250V	10%	5.08mm	2222 370 35104	719A1XE104PK251AG	Ammo
0.10 μ F	250V	5%	5.08mm	2222 370 36104	719A1XE104PJ251AG	Ammo
0.0010 μ F	400V	10%	5.08mm	2222 370 65102	719A1XA102PK401AG	Ammo
0.0010 μ F	400V	5%	5.08mm	2222 370 66102	719A1XA102PJ401AG	Ammo
0.0012 μ F	400V	10%	5.08mm	2222 370 65122	719A1XA122PK401AG	Ammo
0.0012 μ F	400V	5%	5.08mm	2222 370 66122	719A1XA122PJ401AG	Ammo
0.0015 μ F	400V	10%	5.08mm	2222 370 65152	719A1XA152PK401AG	Ammo
0.0015 μ F	400V	5%	5.08mm	2222 370 66152	719A1XA152PJ401AG	Ammo
0.0018 μ F	400V	10%	5.08mm	2222 370 65182	719A1XA182PK401AG	Ammo
0.0018 μ F	400V	5%	5.08mm	2222 370 66182	719A1XA182PJ401AG	Ammo
0.0022 μ F	400V	10%	5.08mm	2222 370 65222	719A1XA222PK401AG	Ammo
0.0022 μ F	400V	5%	5.08mm	2222 370 66222	719A1XA222PJ401AG	Ammo
0.0027 μ F	400V	10%	5.08mm	2222 370 65272	719A1XA272PK401AG	Ammo
0.0027 μ F	400V	5%	5.08mm	2222 370 66272	719A1XA272PJ401AG	Ammo
0.0033 μ F	400V	10%	5.08mm	2222 370 65332	719A1XA332PK401AG	Ammo
0.0033 μ F	400V	5%	5.08mm	2222 370 66332	719A1XA332PJ401AG	Ammo
0.0039 μ F	400V	10%	5.08mm	2222 370 65392	719A1XA392PK401AG	Ammo
0.0039 μ F	400V	5%	5.08mm	2222 370 66392	719A1XA392PJ401AG	Ammo
0.0047 μ F	400V	10%	5.08mm	2222 370 65472	719A1XA473PK401AG	Ammo
0.0047 μ F	400V	5%	5.08mm	2222 370 66472	719A1XA473PJ401AG	Ammo
0.0056 μ F	400V	10%	5.08mm	2222 370 65562	719A1XB562PK401AG	Ammo
0.0056 μ F	400V	5%	5.08mm	2222 370 66562	719A1XB562PJ401AG	Ammo
0.0068 μ F	400V	10%	5.08mm	2222 370 65682	719A1XB682PK401AG	Ammo
0.0068 μ F	400V	5%	5.08mm	2222 370 66682	719A1XB682PJ401AG	Ammo
0.0082 μ F	400V	10%	5.08mm	2222 370 65822	719A1XB822PK401AG	Ammo
0.0082 μ F	400V	5%	5.08mm	2222 370 66822	719A1XB822PJ401AG	Ammo
0.010 μ F	400V	10%	5.08mm	2222 370 65103	719A1XB103PK401AG	Ammo
0.010 μ F	400V	5%	5.08mm	2222 370 66103	719A1XB103PJ401AG	Ammo
0.012 μ F	400V	10%	5.08mm	2222 370 65123	719A1XC123PK401AG	Ammo
0.012 μ F	400V	5%	5.08mm	2222 370 66123	719A1XC123PJ401AG	Ammo
0.015 μ F	400V	10%	5.08mm	2222 370 65153	719A1XC153PK401AG	Ammo
0.015 μ F	400V	5%	5.08mm	2222 370 66153	719A1XC153PJ401AG	Ammo
0.018 μ F	400V	10%	5.08mm	2222 370 65183	719A1XD183PK401AG	Ammo
0.018 μ F	400V	5%	5.08mm	2222 370 66183	719A1XD183PJ401AG	Ammo
0.022 μ F	400V	10%	5.08mm	2222 370 65223	719A1XD223PK401AG	Ammo
0.022 μ F	400V	5%	5.08mm	2222 370 66223	719A1XD223PJ401AG	Ammo
0.027 μ F	400V	10%	5.08mm	2222 370 65273	719A1XE273PK401AG	Ammo
0.027 μ F	400V	5%	5.08mm	2222 370 66273	719A1XE273PJ401AG	Ammo
0.033 μ F	400V	10%	5.08mm	2222 370 65333	719A1XE333PK401AG	Ammo
0.033 μ F	400V	5%	5.08mm	2222 370 66333	719A1XE333PJ401AG	Ammo

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.056 μ F	63V	10%	7.62mm	2222 371 11563	719A1AX563PK630SH	Bulk
0.056 μ F	63V	5%	7.62mm	2222 371 12563	719A1AX563PJ630SH	Bulk
0.056 μ F	63V	10%	7.62mm	2222 371 38563	719A1AX563PK630AH	Ammo
0.056 μ F	63V	5%	7.62mm	2222 371 39563	719A1AX563PJ630AH	Ammo
0.068 μ F	63V	10%	7.62mm	2222 371 11683	719A1AX683PK630SH	Bulk
0.068 μ F	63V	5%	7.62mm	2222 371 12683	719A1AX683PJ630SH	Bulk
0.068 μ F	63V	10%	7.62mm	2222 371 38683	719A1AX683PK630AH	Ammo
0.068 μ F	63V	5%	7.62mm	2222 371 39683	719A1AX683PJ630AH	Ammo
0.082 μ F	63V	10%	7.62mm	2222 371 11823	719A1AX823PK630SH	Bulk
0.082 μ F	63V	5%	7.62mm	2222 371 12823	719A1AX823PJ630SH	Bulk
0.082 μ F	63V	10%	7.62mm	2222 371 38823	719A1AX823PK630AH	Ammo
0.082 μ F	63V	5%	7.62mm	2222 371 39823	719A1AX823PJ630AH	Ammo
0.10 μ F	63V	10%	7.62mm	2222 371 11104	719A1AX104PK630SH	Bulk
0.10 μ F	63V	5%	7.62mm	2222 371 12104	719A1AX104PJ630SH	Bulk
0.10 μ F	63V	10%	7.62mm	2222 371 38104	719A1AX104PK630AH	Ammo
0.10 μ F	63V	5%	7.62mm	2222 371 39104	719A1AX104PJ630AH	Ammo
0.12 μ F	63V	10%	7.62mm	2222 371 11124	719A1AA124PK630SH	Bulk
0.12 μ F	63V	5%	7.62mm	2222 371 12124	719A1AA124PJ630SH	Bulk
0.12 μ F	63V	10%	7.62mm	2222 371 38124	719A1AA124PK630AH	Ammo
0.12 μ F	63V	5%	7.62mm	2222 371 39124	719A1AA124PJ630AH	Ammo
0.15 μ F	63V	10%	7.62mm	2222 371 11154	719A1AA154PK630SH	Bulk
0.15 μ F	63V	5%	7.62mm	2222 371 12154	719A1AA154PJ630SH	Bulk
0.15 μ F	63V	10%	7.62mm	2222 371 38154	719A1AA154PK630AH	Ammo
0.15 μ F	63V	5%	7.62mm	2222 371 39154	719A1AA154PJ630AH	Ammo
0.18 μ F	63V	10%	7.62mm	2222 371 11184	719A1AA184PK630SH	Bulk
0.18 μ F	63V	5%	7.62mm	2222 371 12184	719A1AA184PJ630SH	Bulk
0.18 μ F	63V	10%	7.62mm	2222 371 38184	719A1AA184PK630AH	Ammo
0.18 μ F	63V	5%	7.62mm	2222 371 39184	719A1AA184PJ630AH	Ammo
0.22 μ F	63V	10%	7.62mm	2222 371 11224	719A1AA224PK630SH	Bulk
0.22 μ F	63V	5%	7.62mm	2222 371 12224	719A1AA224PJ630SH	Bulk
0.22 μ F	63V	10%	7.62mm	2222 371 38224	719A1AA224PK630AH	Ammo
0.22 μ F	63V	5%	7.62mm	2222 371 39224	719A1AA224PJ630AH	Ammo
0.27 μ F	63V	10%	7.62mm	2222 371 11274	719A1AB274PK630SH	Bulk
0.27 μ F	63V	5%	7.62mm	2222 371 12274	719A1AB274PJ630SH	Bulk
0.27 μ F	63V	10%	7.62mm	2222 371 38274	719A1AB274PK630AH	Ammo
0.27 μ F	63V	5%	7.62mm	2222 371 39274	719A1AB274PJ630AH	Ammo
0.33 μ F	63V	10%	7.62mm	2222 371 11334	719A1AB334PK630SH	Bulk
0.33 μ F	63V	5%	7.62mm	2222 371 12334	719A1AB334PJ630SH	Bulk
0.33 μ F	63V	10%	7.62mm	2222 371 38334	719A1AB334PK630AH	Ammo
0.33 μ F	63V	5%	7.62mm	2222 371 39334	719A1AB334PJ630AH	Ammo
0.39 μ F	63V	10%	7.62mm	2222 371 11394	719A1AB394PK630SH	Bulk
0.39 μ F	63V	5%	7.62mm	2222 371 12394	719A1AB394PJ630SH	Bulk
0.39 μ F	63V	10%	7.62mm	2222 371 38394	719A1AB394PK630AH	Ammo
0.39 μ F	63V	5%	7.62mm	2222 371 39394	719A1AB394PJ630AH	Ammo
0.47 μ F	63V	10%	7.62mm	2222 371 11474	719A1AB474PK630SH	Bulk
0.47 μ F	63V	5%	7.62mm	2222 371 12474	719A1AB474PJ630SH	Bulk
0.47 μ F	63V	10%	7.62mm	2222 371 38474	719A1AB474PK630AH	Ammo
0.47 μ F	63V	5%	7.62mm	2222 371 39474	719A1AB474PJ630AH	Ammo
0.56 μ F	63V	10%	7.62mm	2222 371 11564	719A1AC564PK630SH	Bulk
0.56 μ F	63V	5%	7.62mm	2222 371 12564	719A1AC564PJ630SH	Bulk

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.56 μ F	63V	10%	7.62mm	2222 371 38564	719A1AC564PK630AH	Ammo
0.56 μ F	63V	5%	7.62mm	2222 371 39564	719A1AC564PJ630AH	Ammo
0.68 μ F	63V	10%	7.62mm	2222 371 11684	719A1AC684PK630SH	Bulk
0.68 μ F	63V	5%	7.62mm	2222 371 12684	719A1AC684PJ630SH	Bulk
0.68 μ F	63V	10%	7.62mm	2222 371 38684	719A1AC684PK630AH	Ammo
0.68 μ F	63V	5%	7.62mm	2222 371 39684	719A1AC684PJ630AH	Ammo
0.82 μ F	63V	10%	7.62mm	2222 371 11824	719A1AC824PK630SH	Bulk
0.82 μ F	63V	5%	7.62mm	2222 371 12824	719A1AC824PJ630SH	Bulk
0.82 μ F	63V	10%	7.62mm	2222 371 38824	719A1AC824PK630AH	Ammo
0.82 μ F	63V	5%	7.62mm	2222 371 39824	719A1AC824PJ630AH	Ammo
1.0 μ F	63V	10%	7.62mm	2222 371 11105	719A1AC105PK630SH	Bulk
1.0 μ F	63V	5%	7.62mm	2222 371 12105	719A1AC105PJ630SH	Bulk
1.0 μ F	63V	10%	7.62mm	2222 371 38105	719A1AC105PK630AH	Ammo
1.0 μ F	63V	5%	7.62mm	2222 371 39105	719A1AC105PJ630AH	Ammo
0.018 μ F	100V	10%	7.62mm	2222 371 21183	719A1AX183PK101SH	Bulk
0.018 μ F	100V	5%	7.62mm	2222 371 22183	719A1AX183PJ101SH	Bulk
0.018 μ F	100V	10%	7.62mm	2222 371 68183	719A1AX183PK101AH	Ammo
0.018 μ F	100V	5%	7.62mm	2222 371 69183	719A1AX183PJ101AH	Ammo
0.022 μ F	100V	10%	7.62mm	2222 371 21223	719A1AX223PK101SH	Bulk
0.022 μ F	100V	5%	7.62mm	2222 371 22223	719A1AX223PJ101SH	Bulk
0.022 μ F	100V	10%	7.62mm	2222 371 68223	719A1AX223PK101AH	Ammo
0.022 μ F	100V	5%	7.62mm	2222 371 69223	719A1AX223PJ101AH	Ammo
0.027 μ F	100V	10%	7.62mm	2222 371 21273	719A1AX273PK101SH	Bulk
0.027 μ F	100V	5%	7.62mm	2222 371 22273	719A1AX273PJ101SH	Bulk
0.027 μ F	100V	10%	7.62mm	2222 371 68273	719A1AX273PK101AH	Ammo
0.027 μ F	100V	5%	7.62mm	2222 371 69273	719A1AX273PJ101AH	Ammo
0.033 μ F	100V	10%	7.62mm	2222 371 21333	719A1AX333PK101SH	Bulk
0.033 μ F	100V	5%	7.62mm	2222 371 22333	719A1AX333PJ101SH	Bulk
0.033 μ F	100V	10%	7.62mm	2222 371 68333	719A1AX333PK101AH	Ammo
0.033 μ F	100V	5%	7.62mm	2222 371 69333	719A1AX333PJ101AH	Ammo
0.039 μ F	100V	10%	7.62mm	2222 371 21393	719A1AX393PK101SH	Bulk
0.039 μ F	100V	5%	7.62mm	2222 371 22393	719A1AX393PJ101SH	Bulk
0.039 μ F	100V	10%	7.62mm	2222 371 68393	719A1AX393PK101AH	Ammo
0.039 μ F	100V	5%	7.62mm	2222 371 69393	719A1AX393PJ101AH	Ammo
0.047 μ F	100V	10%	7.62mm	2222 371 21473	719A1AX473PK101SH	Bulk
0.047 μ F	100V	5%	7.62mm	2222 371 22473	719A1AX473PJ101SH	Bulk
0.047 μ F	100V	10%	7.62mm	2222 371 68473	719A1AX473PK101AH	Ammo
0.047 μ F	100V	5%	7.62mm	2222 371 69473	719A1AX473PJ101AH	Ammo
0.056 μ F	100V	10%	7.62mm	2222 371 21563	719A1AA563PK101SH	Bulk
0.056 μ F	100V	5%	7.62mm	2222 371 22563	719A1AA563PJ101SH	Bulk
0.056 μ F	100V	10%	7.62mm	2222 371 68563	719A1AA563PK101AH	Ammo
0.056 μ F	100V	5%	7.62mm	2222 371 69563	719A1AA563PJ101AH	Ammo
0.068 μ F	100V	10%	7.62mm	2222 371 21683	719A1AA683PK101SH	Bulk
0.068 μ F	100V	5%	7.62mm	2222 371 22683	719A1AA683PJ101SH	Bulk
0.068 μ F	100V	10%	7.62mm	2222 371 68683	719A1AA683PK101AH	Ammo
0.068 μ F	100V	5%	7.62mm	2222 371 69683	719A1AA683PJ101AH	Ammo
0.082 μ F	100V	10%	7.62mm	2222 371 21823	719A1AA823PK101SH	Bulk
0.082 μ F	100V	5%	7.62mm	2222 371 22823	719A1AA823PJ101SH	Bulk
0.082 μ F	100V	10%	7.62mm	2222 371 68823	719A1AA823PK101AH	Ammo
0.082 μ F	100V	5%	7.62mm	2222 371 69823	719A1AA823PJ101AH	Ammo

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.10 μ F	100V	10%	7.62mm	2222 371 21104	719A1AA104PK101SH	Bulk
0.10 μ F	100V	5%	7.62mm	2222 371 22104	719A1AA104PJ101SH	Bulk
0.10 μ F	100V	10%	7.62mm	2222 371 68104	719A1AA104PK101AH	Ammo
0.10 μ F	100V	5%	7.62mm	2222 371 69104	719A1AA104PJ101AH	Ammo
0.12 μ F	100V	10%	7.62mm	2222 371 21124	719A1AB124PK101SH	Bulk
0.12 μ F	100V	5%	7.62mm	2222 371 22124	719A1AB124PJ101SH	Bulk
0.12 μ F	100V	10%	7.62mm	2222 371 68124	719A1AB124PK101AH	Ammo
0.12 μ F	100V	5%	7.62mm	2222 371 69124	719A1AB124PJ101AH	Ammo
0.15 μ F	100V	10%	7.62mm	2222 371 21154	719A1AB154PK101SH	Bulk
0.15 μ F	100V	5%	7.62mm	2222 371 22154	719A1AB154PJ101SH	Bulk
0.15 μ F	100V	10%	7.62mm	2222 371 68154	719A1AB154PK101AH	Ammo
0.15 μ F	100V	5%	7.62mm	2222 371 69154	719A1AB154PJ101AH	Ammo
0.18 μ F	100V	10%	7.62mm	2222 371 21184	719A1AB184PK101SH	Bulk
0.18 μ F	100V	5%	7.62mm	2222 371 22184	719A1AB184PJ101SH	Bulk
0.18 μ F	100V	10%	7.62mm	2222 371 68184	719A1AB184PK101AH	Ammo
0.18 μ F	100V	5%	7.62mm	2222 371 69184	719A1AB184PJ101AH	Ammo
0.22 μ F	100V	10%	7.62mm	2222 371 21224	719A1AB224PK101SH	Bulk
0.22 μ F	100V	5%	7.62mm	2222 371 22224	719A1AB224PJ101SH	Bulk
0.22 μ F	100V	10%	7.62mm	2222 371 68224	719A1AB224PK101AH	Ammo
0.22 μ F	100V	5%	7.62mm	2222 371 69224	719A1AB224PJ101AH	Ammo
0.27 μ F	100V	10%	7.62mm	2222 371 21274	719A1AC274PK101SH	Bulk
0.27 μ F	100V	5%	7.62mm	2222 371 22274	719A1AC274PJ101SH	Bulk
0.27 μ F	100V	10%	7.62mm	2222 371 68274	719A1AC274PK101AH	Ammo
0.27 μ F	100V	5%	7.62mm	2222 371 69274	719A1AC274PJ101AH	Ammo
0.33 μ F	100V	10%	7.62mm	2222 371 21334	719A1AC334PK101SH	Bulk
0.33 μ F	100V	5%	7.62mm	2222 371 22334	719A1AC334PJ101SH	Bulk
0.33 μ F	100V	10%	7.62mm	2222 371 68334	719A1AC334PK101AH	Ammo
0.33 μ F	100V	5%	7.62mm	2222 371 69334	719A1AC334PJ101AH	Ammo
0.39 μ F	100V	10%	7.62mm	2222 371 21394	719A1AC394PK101SH	Bulk
0.39 μ F	100V	5%	7.62mm	2222 371 22394	719A1AC394PJ101SH	Bulk
0.39 μ F	100V	10%	7.62mm	2222 371 68394	719A1AC394PK101AH	Ammo
0.39 μ F	100V	5%	7.62mm	2222 371 69394	719A1AC394PJ101AH	Ammo
0.47 μ F	100V	10%	7.62mm	2222 371 21474	719A1AC474PK101SH	Bulk
0.47 μ F	100V	5%	7.62mm	2222 371 22474	719A1AC474PJ101SH	Bulk
0.47 μ F	100V	10%	7.62mm	2222 371 68474	719A1AC474PK101AH	Ammo
0.47 μ F	100V	5%	7.62mm	2222 371 69474	719A1AC474PJ101AH	Ammo
0.0082 μ F	250V	10%	7.62mm	2222 371 41822	719A1AX822PK251SH	Bulk
0.0082 μ F	250V	5%	7.62mm	2222 371 42822	719A1AX822PJ251SH	Bulk
0.0082 μ F	250V	10%	7.62mm	2222 371 78822	719A1AX822PK251AH	Ammo
0.0082 μ F	250V	5%	7.62mm	2222 371 79822	719A1AX822PJ251AH	Ammo
0.010 μ F	250V	10%	7.62mm	2222 371 41103	719A1AX103PK251SH	Bulk
0.010 μ F	250V	5%	7.62mm	2222 371 42103	719A1AX103PJ251SH	Bulk
0.010 μ F	250V	10%	7.62mm	2222 371 78103	719A1AX103PK251AH	Ammo
0.010 μ F	250V	5%	7.62mm	2222 371 79103	719A1AX103PJ251AH	Ammo
0.012 μ F	250V	10%	7.62mm	2222 371 41123	719A1AX123PK251SH	Bulk
0.012 μ F	250V	5%	7.62mm	2222 371 42123	719A1AX123PJ251SH	Bulk
0.012 μ F	250V	10%	7.62mm	2222 371 78123	719A1AX123PK251AH	Ammo
0.012 μ F	250V	5%	7.62mm	2222 371 79123	719A1AX123PJ251AH	Ammo
0.015 μ F	250V	10%	7.62mm	2222 371 41153	719A1AX153PK251SH	Bulk
0.015 μ F	250V	5%	7.62mm	2222 371 42153	719A1AX153PJ251SH	Bulk

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.015 μ F	250V	10%	7.62mm	2222 371 78153	719A1AX153PK251AH	Ammo
0.015 μ F	250V	5%	7.62mm	2222 371 79153	719A1AX153PJ251AH	Ammo
0.018 μ F	250V	10%	7.62mm	2222 371 41183	719A1AA183PK251SH	Bulk
0.018 μ F	250V	5%	7.62mm	2222 371 42183	719A1AA183PJ251SH	Bulk
0.018 μ F	250V	10%	7.62mm	2222 371 78183	719A1AA183PK251AH	Ammo
0.018 μ F	250V	5%	7.62mm	2222 371 79183	719A1AA183PJ251AH	Ammo
0.022 μ F	250V	10%	7.62mm	2222 371 41223	719A1AA223PK251SH	Bulk
0.022 μ F	250V	5%	7.62mm	2222 371 42223	719A1AA223PJ251SH	Bulk
0.022 μ F	250V	10%	7.62mm	2222 371 78223	719A1AA223PK251AH	Ammo
0.022 μ F	250V	5%	7.62mm	2222 371 79223	719A1AA223PJ251AH	Ammo
0.027 μ F	250V	10%	7.62mm	2222 371 41273	719A1AA273PK251SH	Bulk
0.027 μ F	250V	5%	7.62mm	2222 371 42273	719A1AA273PJ251SH	Bulk
0.027 μ F	250V	10%	7.62mm	2222 371 78273	719A1AA273PK251AH	Ammo
0.027 μ F	250V	5%	7.62mm	2222 371 79273	719A1AA273PJ251AH	Ammo
0.033 μ F	250V	10%	7.62mm	2222 371 41333	719A1AA333PK251SH	Bulk
0.033 μ F	250V	5%	7.62mm	2222 371 42333	719A1AA333PJ251SH	Bulk
0.033 μ F	250V	10%	7.62mm	2222 371 78333	719A1AA333PK251AH	Ammo
0.033 μ F	250V	5%	7.62mm	2222 371 79333	719A1AA333PJ251AH	Ammo
0.039 μ F	250V	10%	7.62mm	2222 371 41393	719A1AA393PK251SH	Bulk
0.039 μ F	250V	5%	7.62mm	2222 371 42393	719A1AA393PJ251SH	Bulk
0.039 μ F	250V	10%	7.62mm	2222 371 78393	719A1AA393PK251AH	Ammo
0.039 μ F	250V	5%	7.62mm	2222 371 79393	719A1AA393PJ251AH	Ammo
0.047 μ F	250V	10%	7.62mm	2222 371 41473	719A1AA473PK251SH	Bulk
0.047 μ F	250V	5%	7.62mm	2222 371 42473	719A1AA473PJ251SH	Bulk
0.047 μ F	250V	10%	7.62mm	2222 371 78473	719A1AA473PK251AH	Ammo
0.047 μ F	250V	5%	7.62mm	2222 371 79473	719A1AA473PJ251AH	Ammo
0.056 μ F	250V	10%	7.62mm	2222 371 41563	719A1AB563PK251SH	Bulk
0.056 μ F	250V	5%	7.62mm	2222 371 42563	719A1AB563PJ251SH	Bulk
0.056 μ F	250V	10%	7.62mm	2222 371 78563	719A1AB563PK251AH	Ammo
0.056 μ F	250V	5%	7.62mm	2222 371 79563	719A1AB563PJ251AH	Ammo
0.068 μ F	250V	10%	7.62mm	2222 371 41683	719A1AB683PK251SH	Bulk
0.068 μ F	250V	5%	7.62mm	2222 371 42683	719A1AB683PJ251SH	Bulk
0.068 μ F	250V	10%	7.62mm	2222 371 78683	719A1AB683PK251AH	Ammo
0.068 μ F	250V	5%	7.62mm	2222 371 79683	719A1AB683PJ251AH	Ammo
0.082 μ F	250V	10%	7.62mm	2222 371 41823	719A1AC823PK251SH	Bulk
0.082 μ F	250V	5%	7.62mm	2222 371 42823	719A1AC823PJ251SH	Bulk
0.082 μ F	250V	10%	7.62mm	2222 371 78823	719A1AC823PK251AH	Ammo
0.082 μ F	250V	5%	7.62mm	2222 371 79823	719A1AC823PJ251AH	Ammo
0.10 μ F	250V	10%	7.62mm	2222 371 41104	719A1AC104PK251SH	Bulk
0.10 μ F	250V	5%	7.62mm	2222 371 42104	719A1AC104PJ251SH	Bulk
0.10 μ F	250V	10%	7.62mm	2222 371 78104	719A1AC104PK251AH	Ammo
0.10 μ F	250V	5%	7.62mm	2222 371 79104	719A1AC104PJ251AH	Ammo
0.0039 μ F	400V	10%	7.62mm	2222 371 51392	719A1AX392PK401SH	Bulk
0.0039 μ F	400V	5%	7.62mm	2222 371 52392	719A1AX392PJ401SH	Bulk
0.0039 μ F	400V	10%	7.62mm	2222 371 88392	719A1AX392PK401AH	Ammo
0.0039 μ F	400V	5%	7.62mm	2222 371 89392	719A1AX392PJ401AH	Ammo
0.0047 μ F	400V	10%	7.62mm	2222 371 51472	719A1AX472PK401SH	Bulk
0.0047 μ F	400V	5%	7.62mm	2222 371 52472	719A1AX472PJ401SH	Bulk
0.0047 μ F	400V	10%	7.62mm	2222 371 88472	719A1AX472PK401AH	Ammo
0.0047 μ F	400V	5%	7.62mm	2222 371 89472	719A1AX472PJ401AH	Ammo

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.0056 μ F	400V	10%	7.62mm	2222 371 51562	719A1AX562PK401SH	Bulk
0.0056 μ F	400V	5%	7.62mm	2222 371 52562	719A1AX562PJ401SH	Bulk
0.0056 μ F	400V	10%	7.62mm	2222 371 88562	719A1AX562PK401AH	Ammo
0.0056 μ F	400V	5%	7.62mm	2222 371 89562	719A1AX562PJ401AH	Ammo
0.0068 μ F	400V	10%	7.62mm	2222 371 51682	719A1AX682PK401SH	Bulk
0.0068 μ F	400V	5%	7.62mm	2222 371 52682	719A1AX682PJ401SH	Bulk
0.0068 μ F	400V	10%	7.62mm	2222 371 88682	719A1AX682PK401AH	Ammo
0.0068 μ F	400V	5%	7.62mm	2222 371 89682	719A1AX682PJ401AH	Ammo
0.0082 μ F	400V	10%	7.62mm	2222 371 51822	719A1AA822PK401SH	Bulk
0.0082 μ F	400V	5%	7.62mm	2222 371 52822	719A1AA822PJ401SH	Bulk
0.0082 μ F	400V	10%	7.62mm	2222 371 88822	719A1AA822PK401AH	Ammo
0.0082 μ F	400V	5%	7.62mm	2222 371 89822	719A1AA822PJ401AH	Ammo
0.010 μ F	400V	10%	7.62mm	2222 371 51103	719A1AA103PK401SH	Bulk
0.010 μ F	400V	5%	7.62mm	2222 371 52103	719A1AA103PJ401SH	Bulk
0.010 μ F	400V	10%	7.62mm	2222 371 88103	719A1AA103PK401AH	Ammo
0.010 μ F	400V	5%	7.62mm	2222 371 89103	719A1AA103PJ401AH	Ammo
0.012 μ F	400V	10%	7.62mm	2222 371 51123	719A1AB123PK401SH	Bulk
0.012 μ F	400V	5%	7.62mm	2222 371 52123	719A1AB123PJ401SH	Bulk
0.012 μ F	400V	10%	7.62mm	2222 371 88123	719A1AB123PK401AH	Ammo
0.012 μ F	400V	5%	7.62mm	2222 371 89123	719A1AB123PJ401AH	Ammo
0.015 μ F	400V	10%	7.62mm	2222 371 51153	719A1AB153PK401SH	Bulk
0.015 μ F	400V	5%	7.62mm	2222 371 52153	719A1AB153PJ401SH	Bulk
0.015 μ F	400V	10%	7.62mm	2222 371 88153	719A1AB153PK401AH	Ammo
0.015 μ F	400V	5%	7.62mm	2222 371 89153	719A1AB153PJ401AH	Ammo

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.10 μ F	100V	10%	10.0mm	2222 372 21104	719A2CD104PK101SA	Bulk
0.10 μ F	100V	5%	10.0mm	2222 372 22104	719A2CD104PJ101SA	Bulk
0.12 μ F	100V	10%	10.0mm	2222 372 21124	719A2CD124PK101SA	Bulk
0.12 μ F	100V	5%	10.0mm	2222 372 22124	719A2CD124PJ101SA	Bulk
0.15 μ F	100V	10%	10.0mm	2222 372 21154	719A2CD154PK101SA	Bulk
0.15 μ F	100V	5%	10.0mm	2222 372 22154	719A2CD154PJ101SA	Bulk
0.18 μ F	100V	10%	10.0mm	2222 372 21184	719A2CD184PK101SA	Bulk
0.18 μ F	100V	5%	10.0mm	2222 372 22184	719A2CD184PJ101SA	Bulk
0.22 μ F	100V	10%	10.0mm	2222 372 21224	719A2CD224PK101SA	Bulk
0.22 μ F	100V	5%	10.0mm	2222 372 22224	719A2CD224PJ101SA	Bulk
0.27 μ F	100V	10%	10.0mm	2222 372 21274	719A2CE274PK101SA	Bulk
0.27 μ F	100V	5%	10.0mm	2222 372 22274	719A2CE274PJ101SA	Bulk
0.33 μ F	100V	10%	10.0mm	2222 372 21334	719A2CE334PK101SA	Bulk
0.33 μ F	100V	5%	10.0mm	2222 372 22334	719A2CE334PJ101SA	Bulk
0.39 μ F	100V	10%	10.0mm	2222 372 21394	719A2CB394PK101SA	Bulk
0.39 μ F	100V	5%	10.0mm	2222 372 22394	719A2CB394PJ101SA	Bulk
0.47 μ F	100V	10%	10.0mm	2222 372 21474	719A2CB474PK101SA	Bulk
0.47 μ F	100V	5%	10.0mm	2222 372 22474	719A2CB474PJ101SA	Bulk
0.047 μ F	250V	10%	10.0mm	2222 372 41473	719A2CD473PK251SA	Bulk
0.047 μ F	250V	5%	10.0mm	2222 372 42473	719A2CD473PJ251SA	Bulk
0.056 μ F	250V	10%	10.0mm	2222 372 41563	719A2CD563PK251SA	Bulk
0.056 μ F	250V	5%	10.0mm	2222 372 42563	719A2CD563PJ251SA	Bulk
0.068 μ F	250V	10%	10.0mm	2222 372 41683	719A2CD683PK251SA	Bulk
0.068 μ F	250V	5%	10.0mm	2222 372 42683	719A2CD683PJ251SA	Bulk
0.082 μ F	250V	10%	10.0mm	2222 372 41823	719A2CE823PK251SA	Bulk
0.082 μ F	250V	5%	10.0mm	2222 372 42823	719A2CE823PJ251SA	Bulk
0.10 μ F	250V	10%	10.0mm	2222 372 41104	719A2CE104PK251SA	Bulk
0.10 μ F	250V	5%	10.0mm	2222 372 42104	719A2CE104PJ251SA	Bulk
0.12 μ F	250V	10%	10.0mm	2222 372 41124	719A2CB124PK251SA	Bulk
0.12 μ F	250V	5%	10.0mm	2222 372 42124	719A2CB124PJ251SA	Bulk
0.15 μ F	250V	10%	10.0mm	2222 372 41154	719A2CB154PK251SA	Bulk
0.15 μ F	250V	5%	10.0mm	2222 372 42154	719A2CB154PJ251SA	Bulk
0.0047 μ F	400V	10%	10.0mm	2222 372 51472	719A2CD472PK401SA	Bulk
0.0047 μ F	400V	5%	10.0mm	2222 372 52472	719A2CD472PJ401SA	Bulk
0.0056 μ F	400V	10%	10.0mm	2222 372 51562	719A2CD562PK401SA	Bulk
0.0056 μ F	400V	5%	10.0mm	2222 372 52562	719A2CD562PJ401SA	Bulk
0.0068 μ F	400V	10%	10.0mm	2222 372 51682	719A2CD682PK401SA	Bulk
0.0068 μ F	400V	5%	10.0mm	2222 372 52682	719A2CD682PJ401SA	Bulk
0.0082 μ F	400V	10%	10.0mm	2222 372 51822	719A2CD822PK401SA	Bulk
0.0082 μ F	400V	5%	10.0mm	2222 372 52822	719A2CD822PJ401SA	Bulk
0.010 μ F	400V	10%	10.0mm	2222 372 51103	719A2CD103PK401SA	Bulk
0.010 μ F	400V	5%	10.0mm	2222 372 52103	719A2CD103PJ401SA	Bulk
0.012 μ F	400V	10%	10.0mm	2222 372 51123	719A2CD123PK401SA	Bulk
0.012 μ F	400V	5%	10.0mm	2222 372 52123	719A2CD123PJ401SA	Bulk
0.015 μ F	400V	10%	10.0mm	2222 372 51153	719A2CD153PK401SA	Bulk
0.015 μ F	400V	5%	10.0mm	2222 372 52153	719A2CD153PJ401SA	Bulk
0.018 μ F	400V	10%	10.0mm	2222 372 51183	719A2CD183PK401SA	Bulk
0.018 μ F	400V	5%	10.0mm	2222 372 52183	719A2CD183PJ401SA	Bulk
0.022 μ F	400V	10%	10.0mm	2222 372 51223	719A2CD223PK401SA	Bulk
0.022 μ F	400V	5%	10.0mm	2222 372 52223	719A2CD223PJ401SA	Bulk

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.027 μ F	400V	10%	10.0mm	2222 372 51273	719A2CE273PK401SA	Bulk
0.027 μ F	400V	5%	10.0mm	2222 372 52273	719A2CE273PJ401SA	Bulk
0.033 μ F	400V	10%	10.0mm	2222 372 51333	719A2CE333PK401SA	Bulk
0.033 μ F	400V	5%	10.0mm	2222 372 52333	719A2CE333PJ401SA	Bulk
0.039 μ F	400V	10%	10.0mm	2222 372 51393	719A2CB393PK401SA	Bulk
0.039 μ F	400V	5%	10.0mm	2222 372 52393	719A2CB393PJ401SA	Bulk
0.047 μ F	400V	10%	10.0mm	2222 372 51473	719A2CB473PK401SA	Bulk
0.047 μ F	400V	5%	10.0mm	2222 372 52473	719A2CB473PJ401SA	Bulk

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Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.33 μ F	100V	10%	15.0mm	2222 373 21334	719A3GD334PK101SB	Bulk
0.33 μ F	100V	5%	15.0mm	2222 373 22334	719A3GD334PJ101SB	Bulk
0.39 μ F	100V	10%	15.0mm	2222 373 21394	719A3GD394PK101SB	Bulk
0.39 μ F	100V	5%	15.0mm	2222 373 22394	719A3GD394PJ101SB	Bulk
0.47 μ F	100V	10%	15.0mm	2222 373 21474	719A3GD474PK101SB	Bulk
0.47 μ F	100V	5%	15.0mm	2222 373 22474	719A3GD474PJ101SB	Bulk
0.56 μ F	100V	10%	15.0mm	2222 373 21564	719A3GD564PK101SB	Bulk
0.56 μ F	100V	5%	15.0mm	2222 373 22564	719A3GD564PJ101SB	Bulk
0.68 μ F	100V	10%	15.0mm	2222 373 21684	719A3GD684PK101SB	Bulk
0.68 μ F	100V	5%	15.0mm	2222 373 22684	719A3GD684PJ101SB	Bulk
0.82 μ F	100V	10%	15.0mm	2222 373 21824	719A3GE824PK101SB	Bulk
0.82 μ F	100V	5%	15.0mm	2222 373 22824	719A3GE824PJ101SB	Bulk
1.0 μ F	100V	10%	15.0mm	2222 373 21105	719A3GE105PK101SB	Bulk
1.0 μ F	100V	5%	15.0mm	2222 373 22105	719A3GE105PJ101SB	Bulk
1.2 μ F	100V	10%	15.0mm	2222 373 21125	719A3GF125PK101SB	Bulk
1.2 μ F	100V	5%	15.0mm	2222 373 22125	719A3GF125PJ101SB	Bulk
1.5 μ F	100V	10%	15.0mm	2222 373 21155	719A3MF155PK101SD	Bulk
1.5 μ F	100V	5%	15.0mm	2222 373 22155	719A3MF155PJ101SD	Bulk
1.8 μ F	100V	10%	15.0mm	2222 373 21185	719A3MG185PK101SD	Bulk
1.8 μ F	100V	5%	15.0mm	2222 373 22185	719A3MG185PJ101SD	Bulk
2.2 μ F	100V	10%	15.0mm	2222 373 21225	719A3MG225PK101SD	Bulk
2.2 μ F	100V	5%	15.0mm	2222 373 22225	719A3MG225PJ101SD	Bulk
2.7 μ F	100V	10%	22.5mm	2222 373 21275	719A3MK275PK101SD	Bulk
2.7 μ F	100V	5%	22.5mm	2222 373 22275	719A3MK275PJ101SD	Bulk
3.3 μ F	100V	10%	22.5mm	2222 373 21335	719A3MK335PK101SD	Bulk
3.3 μ F	100V	5%	22.5mm	2222 373 22335	719A3MK335PJ101SD	Bulk
3.9 μ F	100V	10%	22.5mm	2222 373 21395	719A3MM395PK101SD	Bulk
3.9 μ F	100V	5%	22.5mm	2222 373 22395	719A3MM395PJ101SD	Bulk
4.7 μ F	100V	10%	22.5mm	2222 373 21475	719A3MM475PK101SD	Bulk
4.7 μ F	100V	5%	22.5mm	2222 373 22475	719A3MM475PJ101SD	Bulk
5.6 μ F	100V	10%	27.5mm	2222 373 21565	719A3RP565PK101SE	Bulk
5.6 μ F	100V	5%	27.5mm	2222 373 22565	719A3RP565PJ101SE	Bulk
6.8 μ F	100V	10%	27.5mm	2222 373 21685	719A3RR685PK101SE	Bulk
6.8 μ F	100V	5%	27.5mm	2222 373 22685	719A3RR685PJ101SE	Bulk
8.2 μ F	100V	10%	27.5mm	2222 373 21825	719A3RR825PK101SE	Bulk
8.2 μ F	100V	5%	27.5mm	2222 373 22825	719A3RR825PJ101SE	Bulk
10 μ F	100V	10%	27.5mm	2222 373 21106	719A3RR106PK101SE	Bulk
10 μ F	100V	5%	27.5mm	2222 373 22106	719A3RR106PJ101SE	Bulk
12 μ F	100V	10%	27.5mm	2222 373 21126	719A3RH126PK101SE	Bulk
12 μ F	100V	5%	27.5mm	2222 373 22126	719A3RH126PJ101SE	Bulk
15 μ F	100V	10%	27.5mm	2222 373 21156	719A3RH156PK101SE	Bulk
15 μ F	100V	5%	27.5mm	2222 373 22156	719A3RH156PJ101SE	Bulk
0.15 μ F	250V	10%	15.0mm	2222 373 41154	719A3GD154PK251SB	Bulk
0.15 μ F	250V	5%	15.0mm	2222 373 42154	719A3GD154PJ251SB	Bulk
0.18 μ F	250V	10%	15.0mm	2222 373 41184	719A3GD184PK251SB	Bulk
0.18 μ F	250V	5%	15.0mm	2222 373 42184	719A3GD184PJ251SB	Bulk
0.22 μ F	250V	10%	15.0mm	2222 373 41224	719A3GD224PK251SB	Bulk
0.22 μ F	250V	5%	15.0mm	2222 373 42224	719A3GD224PJ251SB	Bulk
0.27 μ F	250V	10%	15.0mm	2222 373 41274	719A3GE274PK251SB	Bulk
0.27 μ F	250V	5%	15.0mm	2222 373 42274	719A3GE274PJ251SB	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

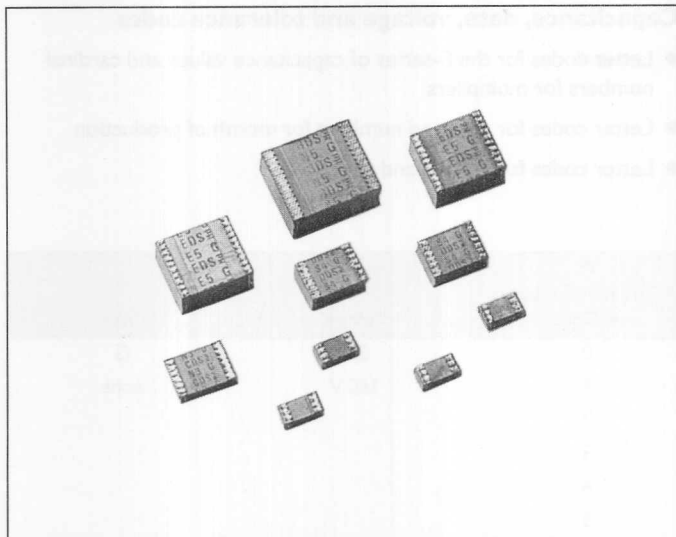
Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.33 μ F	250V	10%	15.0mm	2222 373 41334	719A3GE334PK251SB	Bulk
0.33 μ F	250V	5%	15.0mm	2222 373 42334	719A3GE334PJ251SB	Bulk
0.39 μ F	250V	10%	15.0mm	2222 373 41394	719A3GE394PK251SB	Bulk
0.39 μ F	250V	5%	15.0mm	2222 373 42394	719A3GE394PJ251SB	Bulk
0.47 μ F	250V	10%	15.0mm	2222 373 41474	719A3GE474PK251SB	Bulk
0.47 μ F	250V	5%	15.0mm	2222 373 42474	719A3GE474PJ251SB	Bulk
0.56 μ F	250V	10%	15.0mm	2222 373 41564	719A3GF564PK251SB	Bulk
0.56 μ F	250V	5%	15.0mm	2222 373 42564	719A3GF564PJ251SB	Bulk
0.68 μ F	250V	10%	15.0mm	2222 373 41684	719A3GF684PK251SB	Bulk
0.68 μ F	250V	5%	15.0mm	2222 373 42684	719A3GF684PJ251SB	Bulk
0.82 μ F	250V	10%	15.0mm	2222 373 41824	719A3GG824PK251SB	Bulk
0.82 μ F	250V	5%	15.0mm	2222 373 42824	719A3GG824PJ251SB	Bulk
1.0 μ F	250V	10%	15.0mm	2222 373 41105	719A3GG105PK251SB	Bulk
1.0 μ F	250V	5%	15.0mm	2222 373 42105	719A3GG105PJ251SB	Bulk
1.2 μ F	250V	10%	22.5mm	2222 373 41125	719A3MK125PK251SD	Bulk
1.2 μ F	250V	5%	22.5mm	2222 373 42125	719A3MK125PJ251SD	Bulk
1.5 μ F	250V	10%	22.5mm	2222 373 41155	719A3MK155PK251SD	Bulk
1.5 μ F	250V	5%	22.5mm	2222 373 42155	719A3MK155PJ251SD	Bulk
1.8 μ F	250V	10%	22.5mm	2222 373 41185	719A3MM185PK251SD	Bulk
1.8 μ F	250V	5%	22.5mm	2222 373 42185	719A3MM185PJ251SD	Bulk
2.2 μ F	250V	10%	22.5mm	2222 373 41225	719A3MM225PK251SD	Bulk
2.2 μ F	250V	5%	22.5mm	2222 373 42225	719A3MM225PJ251SD	Bulk
2.7 μ F	250V	10%	27.5mm	2222 373 41275	719A3RR275PK251SE	Bulk
2.7 μ F	250V	5%	27.5mm	2222 373 42275	719A3RR275PJ251SE	Bulk
3.3 μ F	250V	10%	27.5mm	2222 373 41335	719A3RR335PK251SE	Bulk
3.3 μ F	250V	5%	27.5mm	2222 373 42335	719A3RR335PJ251SE	Bulk
3.9 μ F	250V	10%	27.5mm	2222 373 41395	719A3RG395PK251SE	Bulk
3.9 μ F	250V	5%	27.5mm	2222 373 42395	719A3RG395PJ251SE	Bulk
4.7 μ F	250V	10%	27.5mm	2222 373 41475	719A3RG475PK251SE	Bulk
4.7 μ F	250V	5%	27.5mm	2222 373 42475	719A3RG475PJ251SE	Bulk
0.047 μ F	400V	10%	15.0mm	2222 373 51473	719A3GD473PK401SB	Bulk
0.047 μ F	400V	5%	15.0mm	2222 373 52473	719A3GD473PJ401SB	Bulk
0.056 μ F	400V	10%	15.0mm	2222 373 51563	719A3GD563PK401SB	Bulk
0.056 μ F	400V	5%	15.0mm	2222 373 52563	719A3GD563PJ401SB	Bulk
0.068 μ F	400V	10%	15.0mm	2222 373 51683	719A3GD683PK401SB	Bulk
0.068 μ F	400V	5%	15.0mm	2222 373 52683	719A3GD683PJ401SB	Bulk
0.082 μ F	400V	10%	15.0mm	2222 373 51823	719A3GD823PK401SB	Bulk
0.082 μ F	400V	5%	15.0mm	2222 373 52823	719A3GD823PJ401SB	Bulk
0.10 μ F	400V	10%	15.0mm	2222 373 51104	719A3GD104PK401SB	Bulk
0.10 μ F	400V	5%	15.0mm	2222 373 52104	719A3GD104PJ401SB	Bulk
0.12 μ F	400V	10%	15.0mm	2222 373 51124	719A3GE124PK401SB	Bulk
0.12 μ F	400V	5%	15.0mm	2222 373 52124	719A3GE124PJ401SB	Bulk
0.15 μ F	400V	10%	15.0mm	2222 373 51154	719A3GE154PK401SB	Bulk
0.15 μ F	400V	5%	15.0mm	2222 373 52154	719A3GE154PJ401SB	Bulk
0.18 μ F	400V	10%	15.0mm	2222 373 51184	719A3GF184PK401SB	Bulk
0.18 μ F	400V	5%	15.0mm	2222 373 52184	719A3GF184PJ401SB	Bulk
0.22 μ F	400V	10%	15.0mm	2222 373 51224	719A3GF224PK401SB	Bulk
0.22 μ F	400V	5%	15.0mm	2222 373 52224	719A3GF224PJ401SB	Bulk
0.27 μ F	400V	10%	15.0mm	2222 373 51274	719A3GG274PK401SB	Bulk
0.27 μ F	400V	5%	15.0mm	2222 373 52274	719A3GG274PJ401SB	Bulk

Film Capacitor General Purpose Box

PHILIPS

Capacitance	DC Volts	Tolerance	Pitch	Philips Part Number	Old Philips Part Number For Reference Only	Packaging Type
0.33 μ F	400V	10%	15.0mm	2222 373 51334	719A3GG334PK401SB	Bulk
0.33 μ F	400V	5%	15.0mm	2222 373 52334	719A3GG334PJ401SB	Bulk
0.39 μ F	400V	10%	22.5mm	2222 373 51394	719A3MK394PK401SD	Bulk
0.39 μ F	400V	5%	22.5mm	2222 373 52394	719A3MK394PJ401SD	Bulk
0.47 μ F	400V	10%	22.5mm	2222 373 51474	719A3MK474PK401SD	Bulk
0.47 μ F	400V	5%	22.5mm	2222 373 52474	719A3MK474PJ401SD	Bulk
0.56 μ F	400V	10%	22.5mm	2222 373 51564	719A3MM564PK401SD	Bulk
0.56 μ F	400V	5%	22.5mm	2222 373 52564	719A3MM564PJ401SD	Bulk
0.68 μ F	400V	10%	22.5mm	2222 373 51684	719A3MM684PK401SD	Bulk
0.68 μ F	400V	5%	22.5mm	2222 373 52684	719A3MM684PJ401SD	Bulk
0.82 μ F	400V	10%	27.5mm	2222 373 51824	719A3RP824PK401SE	Bulk
0.82 μ F	400V	5%	27.5mm	2222 373 52824	719A3RP824PJ401SE	Bulk
1.0 μ F	400V	10%	27.5mm	2222 373 51105	719A3RP105PK401SE	Bulk
1.0 μ F	400V	5%	27.5mm	2222 373 52105	719A3RP105PJ401SE	Bulk
1.2 μ F	400V	10%	27.5mm	2222 373 51125	719A3RG125PK401SE	Bulk
1.2 μ F	400V	5%	27.5mm	2222 373 52125	719A3RG125PJ401SE	Bulk
1.5 μ F	400V	10%	27.5mm	2222 373 51155	719A3RG155PK401SE	Bulk
1.5 μ F	400V	5%	27.5mm	2222 373 52155	719A3RG155PJ401SE	Bulk

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.



Series 2222 390/391/392/393/ 394 General Purpose Film Capacitor (Surface Mount)

Features

- Self encased chip capacitor
- Stacked metallized non-flammable film cell
- Solder coated terminations
- Solvent resistant without damage
- Case sizes 1206, 1210, 1812, 2220, 2824
- Taped for automatic insertion

Marking (Typical)

Parts are marked with: Capacitance Code, Voltage, Year and Month of Mfg., Mfg. Name.

General

Cap Range	0.22 to 470 nF
Cap Tolerance	±10%, ±5%
Rated Voltage (DC)	25V, 160V
Rated Voltage (AC)	16V, 100V
Rated Temperature	100°C
Max App Temperature	125°C
Reference Spec	IEC 40 (SECR) 644 & EN 132500 (Draft)
Performance Grade	1

Applications

- Blocking and coupling
- Tuning in data processing and telecommunication equipment.

2222	390	2	8	102
Capacitor	Type	Voltage	Tolerance	Capacitance
	390 = 1206	2 = 25V	8 = 10%	
	391 = 1210	4 = 160V	9 = 5%	
	392 = 1812			
	393 = 2220			
	394 = 2824			

Metallized PPS film capacitors MKPS 390/391/392/393/394

PHILIPS

Marking

Product marking

- Rated capacitance
- Rated voltage
- Year and month of manufacture
- Manufacturer's name

Capacitance, date, voltage and tolerance codes

- Letter codes for the E-series of capacitance values and cardinal numbers for multipliers
- Letter codes for year and numbers for month of production
- Letter codes for voltage and tolerance

Capacitance Significant Digits (pF)	Code for Capacitance	Multiplier for Capacitance	Cardinal Number as Code	Voltage	Code
1.0	A	10 ⁰	0	25 V	G
1.1	B	10 ¹	1	160 V	none
1.2	C	10 ²	2		
1.3	D	10 ³	3		
1.5	E	10 ⁴	4		
1.6	F	10 ⁵	5		
1.8	G	10 ⁶	6		
2.0	H	10 ⁷	7		
2.2	J	10 ⁸	8		
2.4	K				
2.7	L				
3.0	M				
3.3	N				
3.6	P				
3.9	Q				
4.3	R				
4.7	S				
5.1	T				
5.6	U				
6.2	V				
6.8	W				
7.5	X				
8.2	Y				
9.1	Z				

Year	Letter Code	Month	Code		
1990	A	january	1		
1991	B	february	2		
1992	C	march	3		
1993	D	april	4		
1994	E	may	5		
1995	F	june	6		
1996	H	july	7		
1997	J	august	8		
1998	K	september	9		
1999	L	october	O		
2000	M	november	N		
2001	N	december	D		

Case sizes 1206 and 1210 are not marked.

Example:
0.01 μ F
25 V
APRIL 94



FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	AC Volts	Tolerance	Philips Part Number	Size	Packaging Type
0.0010 μ F	25V	10%	2222 390 28102	1206	Tape & Reel
0.0010 μ F	25V	5%	2222 390 29102	1206	Tape & Reel
0.0015 μ F	25V	10%	2222 390 28152	1206	Tape & Reel
0.0015 μ F	25V	5%	2222 390 29152	1206	Tape & Reel
0.0022 μ F	25V	10%	2222 390 28222	1206	Tape & Reel
0.0022 μ F	25V	5%	2222 390 29222	1206	Tape & Reel
0.0033 μ F	25V	10%	2222 390 28332	1206	Tape & Reel
0.0033 μ F	25V	5%	2222 390 29332	1206	Tape & Reel
0.0047 μ F	25V	10%	2222 390 28472	1206	Tape & Reel
0.0047 μ F	25V	5%	2222 390 29472	1206	Tape & Reel
0.00022 μ F	160V	10%	2222 390 48221	1206	Tape & Reel
0.00022 μ F	160V	5%	2222 390 49221	1206	Tape & Reel
0.00033 μ F	160V	10%	2222 390 48331	1206	Tape & Reel
0.00033 μ F	160V	5%	2222 390 49331	1206	Tape & Reel
0.00047 μ F	160V	10%	2222 390 48471	1206	Tape & Reel
0.00047 μ F	160V	5%	2222 390 49471	1206	Tape & Reel
0.0010 μ F	25V	10%	2222 391 28102	1210	Tape & Reel
0.0010 μ F	25V	5%	2222 391 29102	1210	Tape & Reel
0.0015 μ F	25V	10%	2222 391 28152	1210	Tape & Reel
0.0015 μ F	25V	5%	2222 391 29152	1210	Tape & Reel
0.0022 μ F	25V	10%	2222 391 28222	1210	Tape & Reel
0.0022 μ F	25V	5%	2222 391 29222	1210	Tape & Reel
0.0033 μ F	25V	10%	2222 391 28332	1210	Tape & Reel
0.0033 μ F	25V	5%	2222 391 29332	1210	Tape & Reel
0.0047 μ F	25V	10%	2222 391 28472	1210	Tape & Reel
0.0047 μ F	25V	5%	2222 391 29472	1210	Tape & Reel
0.0068 μ F	25V	10%	2222 391 28682	1210	Tape & Reel
0.0068 μ F	25V	5%	2222 391 29682	1210	Tape & Reel
0.010 μ F	25V	10%	2222 391 28103	1210	Tape & Reel
0.010 μ F	25V	5%	2222 391 29103	1210	Tape & Reel
0.015 μ F	25V	10%	2222 391 28153	1210	Tape & Reel
0.015 μ F	25V	5%	2222 391 29153	1210	Tape & Reel
0.00047 μ F	160V	10%	2222 391 48471	1210	Tape & Reel
0.00047 μ F	160V	5%	2222 391 49471	1210	Tape & Reel
0.00068 μ F	160V	10%	2222 391 48681	1210	Tape & Reel
0.00068 μ F	160V	5%	2222 391 49681	1210	Tape & Reel
0.0010 μ F	160V	10%	2222 391 48102	1210	Tape & Reel
0.0010 μ F	160V	5%	2222 391 49102	1210	Tape & Reel
0.0015 μ F	160V	10%	2222 391 48152	1210	Tape & Reel
0.0015 μ F	160V	5%	2222 391 49152	1210	Tape & Reel

Film Capacitor Surface Mount

PHILIPS

Capacitance	AC Volts	Tolerance	Philips Part Number	Size	Packaging Type
0.0010 μ F	25V	10%	2222 392 28102	1812	Tape & Reel
0.0010 μ F	25V	5%	2222 392 29102	1812	Tape & Reel
0.0015 μ F	25V	10%	2222 392 28152	1812	Tape & Reel
0.0015 μ F	25V	5%	2222 392 29152	1812	Tape & Reel
0.0022 μ F	25V	10%	2222 392 28222	1812	Tape & Reel
0.0022 μ F	25V	5%	2222 392 29222	1812	Tape & Reel
0.0033 μ F	25V	10%	2222 392 28332	1812	Tape & Reel
0.0033 μ F	25V	5%	2222 392 29332	1812	Tape & Reel
0.0047 μ F	25V	10%	2222 392 28472	1812	Tape & Reel
0.0047 μ F	25V	5%	2222 392 29472	1812	Tape & Reel
0.0068 μ F	25V	10%	2222 392 28682	1812	Tape & Reel
0.0068 μ F	25V	5%	2222 392 29682	1812	Tape & Reel
0.010 μ F	25V	10%	2222 392 28103	1812	Tape & Reel
0.010 μ F	25V	5%	2222 392 29103	1812	Tape & Reel
0.015 μ F	25V	10%	2222 392 28153	1812	Tape & Reel
0.015 μ F	25V	5%	2222 392 29153	1812	Tape & Reel
0.022 μ F	25V	10%	2222 392 28223	1812	Tape & Reel
0.022 μ F	25V	5%	2222 392 29223	1812	Tape & Reel
0.033 μ F	25V	10%	2222 392 28333	1812	Tape & Reel
0.033 μ F	25V	5%	2222 392 29333	1812	Tape & Reel
0.047 μ F	25V	10%	2222 392 28473	1812	Tape & Reel
0.047 μ F	25V	5%	2222 392 29473	1812	Tape & Reel
0.0015 μ F	160V	10%	2222 392 48152	1812	Tape & Reel
0.0015 μ F	160V	5%	2222 392 49152	1812	Tape & Reel
0.0022 μ F	160V	10%	2222 392 48222	1812	Tape & Reel
0.0022 μ F	160V	5%	2222 392 49222	1812	Tape & Reel
0.0033 μ F	160V	10%	2222 392 48332	1812	Tape & Reel
0.0033 μ F	160V	5%	2222 392 49332	1812	Tape & Reel
0.0047 μ F	160V	10%	2222 392 48472	1812	Tape & Reel
0.0047 μ F	160V	5%	2222 392 49472	1812	Tape & Reel
0.10 μ F	25V	5%	2222 393 29104	2220	Tape & Reel
0.047 μ F	25V	10%	2222 393 28473	2220	Tape & Reel
0.047 μ F	25V	5%	2222 393 29473	2220	Tape & Reel
0.068 μ F	25V	10%	2222 393 28683	2220	Tape & Reel
0.068 μ F	25V	5%	2222 393 29683	2220	Tape & Reel
0.10 μ F	25V	10%	2222 393 28104	2220	Tape & Reel
0.15 μ F	25V	10%	2222 393 28154	2220	Tape & Reel
0.15 μ F	25V	5%	2222 393 29154	2220	Tape & Reel
0.22 μ F	25V	10%	2222 393 28224	2220	Tape & Reel
0.22 μ F	25V	5%	2222 393 29224	2220	Tape & Reel
0.0047 μ F	160V	10%	2222 393 48472	2220	Tape & Reel
0.0047 μ F	160V	5%	2222 393 49472	2220	Tape & Reel
0.0068 μ F	160V	10%	2222 393 48682	2220	Tape & Reel
0.0068 μ F	160V	5%	2222 393 49682	2220	Tape & Reel
0.010 μ F	160V	10%	2222 393 48103	2220	Tape & Reel
0.010 μ F	160V	5%	2222 393 49103	2220	Tape & Reel
0.015 μ F	160V	10%	2222 393 48153	2220	Tape & Reel
0.015 μ F	160V	5%	2222 393 49153	2220	Tape & Reel
0.022 μ F	160V	10%	2222 393 48223	2220	Tape & Reel
0.022 μ F	160V	5%	2222 393 49223	2220	Tape & Reel

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA05.

Capacitance	AC Volts	Tolerance	Philips Part Number	Size	Packaging Type
0.22 μ F	25V	10%	2222 394 28224	2824	Tape & Reel
0.22 μ F	25V	5%	2222 394 29224	2824	Tape & Reel
0.33 μ F	25V	10%	2222 394 28334	2824	Tape & Reel
0.33 μ F	25V	5%	2222 394 29334	2824	Tape & Reel
0.47 μ F	25V	10%	2222 394 28474	2824	Tape & Reel
0.47 μ F	25V	5%	2222 394 29474	2824	Tape & Reel
0.022 μ F	160V	10%	2222 394 48223	2824	Tape & Reel
0.022 μ F	160V	5%	2222 394 49223	2824	Tape & Reel
0.033 μ F	160V	10%	2222 394 48333	2824	Tape & Reel
0.033 μ F	160V	5%	2222 394 49333	2824	Tape & Reel
0.047 μ F	160V	10%	2222 394 48473	2824	Tape & Reel
0.047 μ F	160V	5%	2222 394 49473	2824	Tape & Reel

Aluminum Electrolytic Capacitors Computer Grade

PHILIPS



Series 3186 Computer Grade Aluminum Electrolytic Capacitors

Description

Philips Components' Series 3186 Computer-Grade Aluminum Electrolytic Capacitors are designed for use in the most demanding data-system and industrial-control applications. They provide the highest attainable reliability in this class of capacitors, with generous safety margins insured by computer designing and painstaking manufacturing control.

This family of capacitors offers the widest range of capacity/voltage combinations ever offered in heavy-duty computer-grade electrolytics. Combined with 39 standard case sizes and five terminal options, the Series 3186 Capacitors can provide a suitable standard product for nearly every application. In addition, the ripple-current ratings for these units meet or exceed all industry requirements for similar products. These capacitors are suitable for all applications where long life at high operating temperatures without derating is required in a standard computer-grade product.

Features

- 200 Hours Operating Life at 85°C.
- Highest Capacitance per case size.
- Meets or exceeds all requirements for EIA-RS395 for type II capacitors.
- Computer-designed for optimum performance.
- 39 Standard Case Sizes.
- Pressure-Sensitive Safety Vent.
- Operating Temperature: -40°C to +85°C.
- Termination: Screw Terminals.
- Voltage Range 6.3-450 VDC.

The capacitors are marked with:

- Nominal capacitance
- Rated voltage
- EIA source and date code
- Maximum ambient temperature
- Polarity
- Name of manufacturer
- Part number
- Capacitance tolerance

How to Specify

Philips Components Series Capacitors can be completely specified using the following designation:

XXXX	BA	942	U	005	A	P	A-1
Philips Components Product Series	Case Size Code	Capacitance XX = Significant Digits x = Multiplier i.e. 942 = 9,400 μ F	Tolerance U = -10%+75% T = -10%+50%	Voltage 005 = 5VDC 050 = 50VDC	Terminal Style A = High Post B = Low Post D = High Current, Low Post K = High Current, High Post H = PC Mount	Insulation & Bracket Code (see physical spec)	Factory Assigned Number

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Series 3186

Case Codes Case Size (*)	REPRESENTATIVE CAPACITANCE RATINGS BY CASE SIZE AT RATED WORKING VOLTAGE (μF)															
	6.5 VDC	10 VDC	15 VDC	25 VDC	40 VDC	50 VDC	63 VDC	75 VDC	100 VDC	150 VDC	200 VDC	250 VDC	300 VDC	350 VDC	400 VDC	450 VDC
BA (1.375x2.125)	57000	44000	32000	20000	12000	9900	6800	5300	2700	1600	1000	790	520	530	350	250
BB (1.375x2.625)	68000	53000	38000	24000	15000	11000	8200	6400	3300	1900	1300	940	630	510	420	300
BC (1.375x3.125)	91000	71000	51000	33000	20000	15000	10000	8500	4400	2600	1700	1200	840	680	570	410
BD (1.375x3.625)	110000	89000	64000	41000	25000	19000	13000	10000	5500	3200	2100	1500	1000	860	710	510
BE (1.375x4.125)	130000	100000	76000	49000	31000	23000	16000	12000	6600	3900	2600	1800	1200	1000	850	610
BF (1.375x4.625)	160000	120000	89000	57000	36000	27000	19000	14000	7700	4500	3000	2200	1400	1200	900	710
BG (1.375x5.125)	180000	140000	100000	66000	41000	31000	21000	17000	8800	5200	3400	2500	1600	1300	1100	820
BH (1.375x5.625)	200000	160000	110000	74000	46000	35000	24000	19000	9900	5900	3900	2800	1800	1500	1200	920
DA (1.750x2.125)	100000	79000	56000	36000	22000	17000	12000	9400	4900	2900	1900	1400	930	760	630	460
DB (1.750x2.625)	120000	95000	68000	44000	27000	21000	14000	11000	5900	3500	2300	1600	1100	920	760	550
DC (1.750x3.125)	160000	120000	91000	58000	36000	28000	19000	15000	7800	4600	3000	2200	1400	1200	1000	730
DD (1.750x3.625)	200000	150000	110000	73000	45000	35000	24000	18000	9800	5800	3800	2800	1800	1500	1200	920
DE (1.750x4.125)	240000	190000	130000	88000	55000	42000	29000	22000	11000	7000	4600	3300	2200	1800	1500	1100
DF (1.750x4.625)	280000	220000	150000	100000	64000	49000	34000	26000	13000	8100	5400	3900	2600	2100	1700	1200
DG (1.750x5.125)	320000	250000	180000	110000	73000	56000	39000	30000	15000	9300	6100	4500	2900	2400	2000	1400
DH (1.750x5.625)	360000	280000	200000	130000	82000	63000	43000	34000	17000	10000	6900	5000	3300	2700	2200	1600
EA (2.000x2.125)	130000	100000	73000	47000	29000	22000	15000	12000	6300	3700	2500	1800	1200	990	820	590
EB (2.000x2.625)	150000	120000	88000	57000	35000	27000	18000	14000	7600	4500	3000	2100	1400	1100	980	710
EC (2.000x3.125)	210000	160000	110000	76000	47000	36000	25000	19000	10000	6000	4000	2900	1900	1500	1300	950
ED (2.000x3.625)	260000	200000	140000	95000	59000	45000	31000	24000	12000	7500	5000	3600	2400	1900	1600	1100
EE (2.000x4.125)	310000	240000	170000	110000	71000	54000	37000	29000	15000	9000	6000	4300	2900	2300	1900	1400
EF (2.000x4.625)	370000	280000	200000	130000	83000	64000	44000	34000	17000	10000	7000	5100	3300	2700	2300	1600
EG (2.000x5.125)	420000	330000	230000	150000	95000	73000	50000	39000	20000	12000	8000	5800	3800	3100	2600	1900
EH (2.000x5.625)	470000	370000	260000	170000	100000	82000	56000	44000	22000	13000	9000	6500	4300	3500	2900	2100
FB (2.500x2.625)	260000	200000	140000	95000	59000	45000	27000	21000	12000	7500	5000	3600	2400	1600	1300	1200
FC (2.500x3.125)	350000	270000	190000	120000	79000	61000	37000	28000	17000	10000	8700	4800	3200	2100	1800	1600
FD (2.500x3.625)	440000	340000	240000	150000	99000	76000	46000	35000	21000	12000	8300	6000	4000	2700	2200	2000
FE (2.500x4.125)	530000	410000	290000	190000	110000	91000	55000	42000	25000	15000	10000	7300	4800	3200	2700	2400
FF (2.500x4.625)	610000	480000	340000	220000	130000	100000	64000	50000	29000	17000	11000	8500	5600	3800	3100	2800
FG (2.500x5.125)	700000	550000	390000	250000	150000	120000	74000	57000	34000	20000	13000	9700	6400	4300	2600	3200
FH (2.500x5.625)	790000	620000	440000	280000	170000	130000	83000	64000	38000	22000	15000	10000	7300	4900	4000	3600
GC (3.000x3.125)	520000	400000	290000	180000	110000	90000	54000	42000	25000	14000	9800	7100	4700	3200	2600	2300
GD (3.000x3.625)	650000	500000	360000	230000	140000	110000	68000	52000	31000	18000	12000	8900	5900	4000	3300	2900
GE (3.000x4.125)	780000	610000	430000	280000	170000	130000	82000	63000	37000	22000	14000	10000	7100	4800	4000	3500
GF (3.000x4.625)	910000	710000	500000	320000	200000	150000	95000	73000	44000	26000	17000	12000	8300	5600	4700	4100
GG (3.000x5.125)	1000000	810000	580000	370000	230000	180000	100000	84000	50000	29000	19000	14000	9500	6400	5300	4700
GH (3.000x5.625)	1100000	910000	650000	420000	260000	200000	120000	95000	56000	33000	22000	16000	10000	7300	6000	5300
GN (3.000x8.625)	1900000	1500000	1000000	700000	430000	330000	200000	150000	94000	55000	37000	26000	14000	12000	10000	8800
Endurance	1,000 Hrs With Full IR, and Full Rated WVDC.															
Temperature range	-40 to 85°C															
Tolerance	-10 +50 -10 +30 +20%															

Aluminum Electrolytic Capacitors Long Life Computer-Grade

PHILIPS



Series 3188 Long Life Computer-Grade Aluminum Electrolytic Capacitors

Description

Series 3188 Long-Life Aluminum Electrolytic Capacitors are designed for those applications where a standard computer-grade product must operate under environmental and operational stresses more severe than those normally encountered. These units are constructed of the highest-quality materials and processed to achieve the low leakage current necessary for long shelf life and long operating life with high ripple currents. The Series 3188 features a 2000 hour operating life at 105°C.

Features

- 4000 Hours Operating Life at 85°C.
- Up to 45A Ripple Current at 85°C.
- 39 Standard Case Sizes.
- Low Leakage Current.
- Computer-designed for optimum performance.
- Meets all requirements for EIA-RS-395 for type I capacitors.
- Voltage Range 6 to 400 WVDC.
- Operating Temperature: -40°C - +105°C.
- Termination: Screw terminals.

The capacitors are marked with:

- Nominal capacitance
- Rated voltage
- EIA source and date code
- Maximum ambient temperature
- Polarity
- Name of manufacturer
- Part number
- Capacitance tolerance

How to Specify

Philips Components Series Capacitors can be completely specified using the following designation:

XXXX	BA	942	U	005	A	P	A-1
Philips Components Product Series	Case Size Code	Capacitance XX = Significant Digits x = Multiplier i.e. 942 = 9,400 μ F	Tolerance U = -10%+75% T = -10%+50%	Voltage 005 = 5VDC 050 = 50VDC	Terminal Style A = High Post B = Low Post D = High Current, Low Post K = High Current, High Post H = PC Mount	Insulation & Bracket Code (see physical spec)	Factory Assigned Number

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Series 3188

Case Codes	REPRESENTATIVE CAPACITANCE RATINGS BY CASE SIZE AT RATED WORKING VOLTAGE (μF)														
Case Size (*)	7.5 VDC	10 VDC	15 VDC	25 VDC	35 VDC	50 VDC	60 VDC	75 VDC	100 VDC	150 VDC	200 VDC	250 VDC	300 VDC	350 VDC	400 VDC
BA (1.375x2.125)	45000	38000	28000	17000	12000	8300	6000	4000	1900	1200	790	520	430	350	310
BB (1.375x2.625)	54000	46000	33000	20000	15000	9900	7200	4800	2300	1400	940	630	510	420	370
BC (1.375x3.125)	72000	61000	45000	27000	20000	13000	9600	6400	3100	1900	1200	840	680	570	500
BD (1.375x3.625)	91000	76000	56000	34000	25000	16000	12000	8000	3900	2400	1500	1000	660	710	620
BE (1.375x4.125)	100000	92000	67000	40000	31000	19000	14000	9700	4700	2900	1800	1200	1000	850	750
BF (1.375x4.625)	120000	100000	79000	47000	36000	23000	16000	11000	5500	3400	2200	1400	1200	900	870
BG (1.375x5.125)	140000	120000	90000	54000	41000	26000	19000	12000	6300	3800	2500	1600	1300	1100	1000
BH (1.375x5.625)	160000	130000	100000	61000	46000	29000	21000	14000	7100	4300	2800	1800	1500	1200	1100
DA (1.750x2.125)	81000	68000	50000	30000	22000	14000	10000	7100	3500	2100	1400	930	760	630	550
DB (1.750x2.625)	97000	81000	60000	36000	27000	17000	12000	8600	4200	2500	1600	1100	920	760	670
DC (1.750x3.125)	120000	100000	80000	48000	36000	23000	17000	11000	5600	3400	2200	1400	1200	1000	890
DD (1.750x3.625)	160000	130000	100000	60000	45000	29000	21000	14000	7000	4300	2800	1800	1500	1200	1100
DE (1.750x4.125)	190000	160000	120000	72000	55000	35000	25000	17000	8400	5100	3300	2200	1800	1500	1300
DF (1.750x4.625)	220000	190000	140000	84000	64000	41000	30000	20000	9800	6000	3900	2600	2100	1700	1500
DG (1.750x5.125)	250000	210000	160000	96000	73000	47000	34000	22000	11000	6900	4500	2900	2400	2000	1700
DH (1.750x5.625)	290000	240000	180000	100000	82000	53000	38000	25000	12000	7700	5000	3300	2700	2200	2000
EA (2.000x2.125)	100000	88000	65000	39000	29000	19000	13000	9300	4500	2800	1800	1200	990	820	720
EB (2.000x2.625)	120000	100000	78000	47000	35000	22000	16000	11000	5400	3300	2100	1400	1100	980	860
EC (2.000x3.125)	160000	140000	100000	62000	47000	30000	22000	14000	7200	4400	2900	1900	1500	1300	1100
ED (2.000x3.625)	210000	170000	130000	78000	59000	38000	27000	18000	9100	5600	3600	2400	1900	1600	1400
EE (2.000x4.125)	250000	210000	150000	94000	71000	45000	33000	22000	10000	6700	4300	2900	2300	1900	1700
EF (2.000x4.625)	290000	240000	180000	100000	83000	53000	38000	26000	12000	7800	5100	3300	2700	2300	2000
EG (2.000x5.125)	330000	280000	200000	120000	95000	61000	44000	29000	14000	8900	5800	3800	3100	2600	2300
EH (2.000x5.625)	370000	310000	230000	140000	100000	68000	50000	33000	16000	10000	6500	4300	3500	2900	2600
FB (2.500x2.625)	210000	170000	130000	78000	59000	38000	24000	16000	9100	5600	3600	2400	1900	1300	1200
FC (2.500x3.125)	280000	230000	170000	100000	79000	51000	32000	21000	12000	7400	4800	3200	2600	1800	1600
FD (2.500x3.625)	350000	290000	210000	130000	99000	63000	40000	27000	15000	9300	6000	4000	3300	2200	2000
FE (2.500x4.125)	420000	350000	260000	150000	110000	76000	48000	32000	18000	11000	7300	4800	3900	2700	2400
FF (2.500x4.625)	490000	410000	300000	180000	130000	89000	56000	38000	21000	13000	8500	5600	4600	3100	2800
FG (2.500x5.125)	560000	470000	340000	200000	150000	100000	64000	43000	24000	14000	9700	6400	5300	3600	3200
FH (2.500x5.625)	630000	530000	390000	230000	170000	110000	73000	48000	27000	16000	10000	7300	5900	4000	3600
GC (3.000x3.125)	410000	340000	250000	150000	110000	75000	47000	32000	17000	11000	7100	4700	3900	2600	2300
GD (3.000x3.625)	510000	430000	320000	190000	140000	94000	59000	40000	22000	13000	8900	5900	4900	3300	2900
GE (3.000x4.125)	620000	520000	380000	230000	170000	110000	71000	48000	26000	16000	10000	7100	5800	4000	3500
GF (3.000x4.625)	720000	610000	440000	260000	200000	130000	83000	56000	31000	19000	12000	8300	6800	4700	4100
GG (3.000x5.125)	820000	690000	510000	300000	230000	150000	95000	64000	35000	22000	14000	9500	7800	5300	4700
GH (3.000x5.625)	930000	780000	570000	340000	260000	160000	100000	72000	40000	24000	16000	10000	8800	6000	5300
GN (3.000x6.625)	1500000	1300000	960000	570000	430000	280000	170000	120000	67000	41000	26000	14000	11000	10000	8800
Endurance	2,000 Hrs @ 105°C with Full Rated WVDC.														
Temperature range	-40 to 105°C														
Tolerance	-10 +50 -10 +30 +20%														

Aluminum Electrolytic Capacitors Standard Snap-In



Series 2222 056 Standard Snap-In Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Large types, minimized dimensions, cylindrical aluminum case, insulated with a blue sleeve
- Pressure relief on the top of the aluminum case
- Charge and discharge proof
- Long useful life:
12,000 hours at 85°C
- High ripple current capability.

Applications

- General purpose, industrial and audio/video systems
- Smoothing and filtering
- Standard and switched mode power supplies
- Energy storage in pulse systems.

Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance
- Tolerance code on rated capacitance (M for $\pm 20\%$)
- Rated voltage
- Climatic category (in accordance with IEC 68)
- Date code (year and week) in accordance with IEC 62
- Code for factory of origin
- Name of manufacturer
- '—' sign to indicate the negative terminal, visible from the top and side of the capacitor
- Code number (last 8 digits)
- Code for basic specification (in accordance with IEC 384-4-1, CECC 30 301).

Quick Reference Data

	056
Case size ($\varnothing D_{nom} \times L_{nom}$ in mm)	22 x 25 to 35 x 50
Rated capacitance range (E6/E12 series), C_R	47 to 68,000 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	10 V to 100V
Category temperature range	-40 to +85°C
Endurance test at 85°C	5000 hours (450 V: 2000 hours)
Useful life at 85°C	12,000 hours (450 V: 5000 hours)
Useful life at U_R , 40°C and $1.4 \times I_R$ applied	210,000 hours (450 V: 90,000 hours)
Shelf life at 0 V, 85°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	CECC 30 301-806 (in preparation)
Climatic category IEC 68 DIN 40040	40/085/56 GPF



Series 2222 058 High Temperature Snap-In Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Large types, minimized dimensions, cylindrical aluminum case, insulated with a blue sleeve
- Pressure relief in the top of the aluminum case
- Charge and discharge proof
- Very long useful life:
up to 10,000 hours at 105°C
- Extended temperature range: 105°C
- Low ESR, high ripple current capability.

Applications

- Computer, telecommunication and industrial systems
- Smoothing and filtering applications
- Standard and switched mode power supplies
- Energy storage in pulse systems.

Quick Reference Data

	058
Case size ($\varnothing D_{nom} \times L_{nom}$ in mm)	22 x 25 to 35 x 50
Rated capacitance range (E6/E12 series), C_R	33 to 47,000 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	10 to 100V
Category temperature range	-40 to +105°C
Endurance test at 105°C	≤ 50 V: 2000 hours; ≥ 63 V: 5000 hours
Useful life at 105°C	≤ 50 V: 5000 hours; ≥ 63 V: 10,000 hours
Useful life at U_R , 40°C and $1.9 \times I_R$ applied	≤ 50 V: 125,000 hours; ≥ 63 V: 250,000 hours
Shelf life at 0 V, 105°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	CECC 30 301-807 (in preparation)
Climatic category IEC 68 DIN 40040	40/105/56 GMF

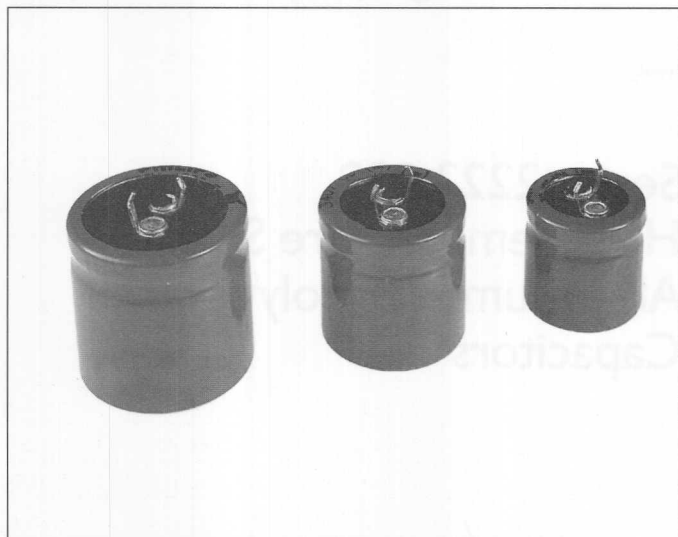
Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance
- Tolerance code on rated capacitance (M for $\pm 20\%$)
- Rated voltage
- Climatic category (in accordance with IEC 68)
- Date code (year and week) in accordance with IEC 62
- Code for factory of origin
- Name of manufacturer
- '—' sign to indicate the negative terminal, visible from the top and side of the capacitor
- Code number (last 8 digits)
- Code for basic specification (in accordance with IEC 384-4-1, CECC 30 301).

Aluminum Electrolytic Capacitors Power Standard Snap-In

PHILIPS



Series 3407 Power Standard Snap-In Aluminum Electrolytic Capacitors

Description

The Series 3407 utilizes a snap-in terminal configuration. This allows fast and easy mounting onto printed circuit boards, eliminating the need for mounting hardware and reducing assembly time.

This product offers the ability to replace standard 85°C snap ins in all consumer, industrial and professional applications with a high quality domestically manufactured product with all welded construction.

Features

- High CV Product Value Per Case Size
- High Ripple Current
- Long Life — 2,000 hrs @ 85°C
- All Welded Construction
- For Power Supply, Motor Control and UPS Applications
- Voltage Range from 160 to 450VDC

How to Specify

Philips Components Series Capacitors can be completely specified using the following designation:

<u>3407</u>	<u>DE</u>	<u>102</u>	<u>M</u>	<u>200</u>	<u>D</u>	<u>F</u>
Philips Components Product Series	Case Size Code	Capacitance XX = Significant Digits x = Multiplier i.e. 102 = 1,000 μ F	Tolerance M = $\pm 20\%$	Working Voltage	Cover Construction D = Two leads 10.0mm spacing	Standard Insulation F = .006" PVC

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Series 3407 — Power Standard Snap-In

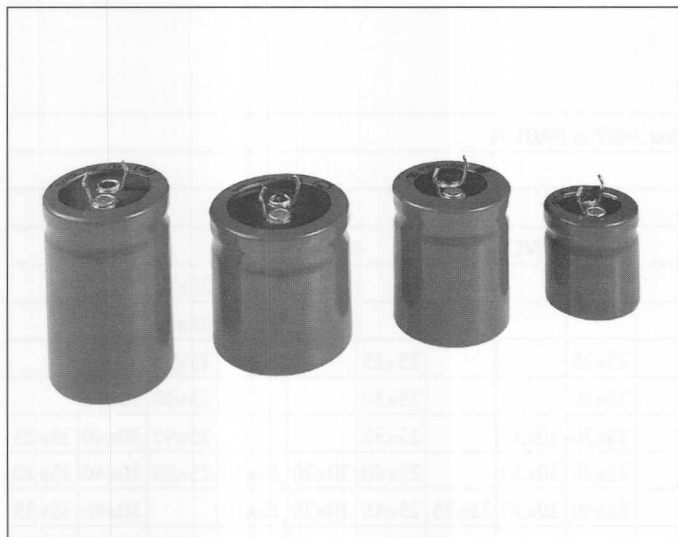
Useful life	See Temperature and Ripple Current Life Multipliers Table for 3407 in PA01-A.																	
Features	Miniaturized																	
Applications	Power Applications																	
C_R (μF)	160VDC			200VDC			250VDC			350VDC			400VDC			450VDC		
82																25x25		
100																25x30		
120										25x25			25x25			25x35	30x25	
150										25x30			25x30			25x40	30x30	
180										25x30	30x25		25x35			25x45	30x40	35x25
220										25x35	30x30		25x40	30x30	35x25	25x50	30x40	35x30
270							25x25			25x40	30x30	35x25	25x45	30x35	35x30		30x45	35x35
330							25x30			25x45	30x35	35x30		30x40	35x30		30x50	35x40
390				25x25			25x30	30x25			30x40	35x30		30x45	35x35			35x45
470	25x25			25x30			25x35	30x30			30x45	35x35		30x50	35x40			35x50
560	25x30			25x35	30x25		25x40	30x30	35x25			35x40			35x45			
680	25x30	30x25		25x40	30x30		25x45	30x35	35x30			35x45			35x50			
820	25x35	30x30		25x45	30x35	35x30		30x40	35x30									
1000	25x40	30x30			30x40	35x30		30x45	35x40									
1200	25x45	30x35	35x30		30x45	35x35			35x45									
1500		30x40	35x35		30x50	35x40			35x50									
1800		30x50	35x40			35x45												
2200			35x45			35x50												
2700			35x50															
Endurance	2,000 Hrs @ 85°C With IR and Full Rated VDC																	
Temperature range	-40 to 85°C																	
Tolerance	-20% to +20%																	

DESCRIPTION OF CASE SIZE CODES					
Case Codes	D x L mm	Case Codes	D x L mm	Case Codes	D x L mm
BB	25x25	CB	30x25	DB	35x25
BC	25x30	CC	30x30	DC	35x30
BD	25x35	CD	30x35	DD	35x35
BE	25x40	CE	30x40	SE	35x40
BK	25x45	CK	30x45	DK	35x45
BF	25x50	CF	30x50	DF	35x50

Aluminum Electrolytic Capacitors

Power 105°C Snap-In

PHILIPS



Series 3408

Power 105°C Snap-In

Aluminum Electrolytic

Capacitors

Description

The Series 3408 utilizes a snap-in terminal configuration. This allows fast and easy mounting onto printed circuit boards, eliminating the need for mounting hardware and reducing assembly time.

This product offers the ability to replace standard 105°C snap ins in all consumer, industrial and professional applications with a high quality domestically manufactured product with all welded construction.

Features

- High CV Product Value Per Case Size
- High Ripple Current
- Long Life — 2,000 hrs @ 105°C
- All Welded Construction
- For Power Supply, Motor Control and UPS Applications
- Voltage Range from 160 to 250VDC

How to Specify

Philips Components Series Capacitors can be completely specified using the following designation:

3408	DE	102	M	200	D	F
Philips Components Product Series	Case Size Code	Capacitance XX = Significant Digits x = Multiplier i.e. 102 = 1,000 μ F	Tolerance M = $\pm 20\%$	Working Voltage	Cover Construction D = Two leads 10.0mm spacing	Standard Insulation F = .006" PVC

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

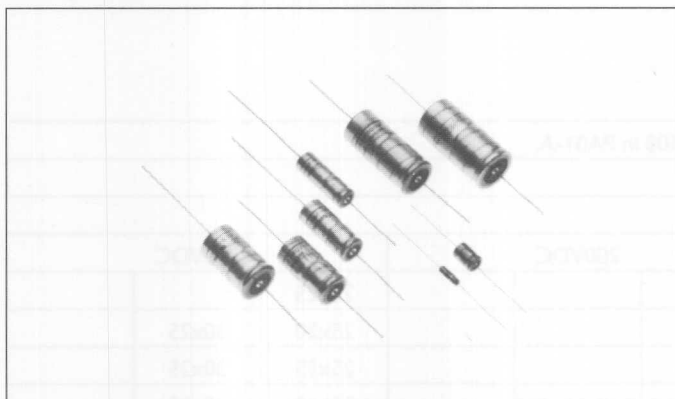
Series 3408 — Power 105°C Snap-In

Useful life	See Temperature/IR/Life Multipliers Table for 3408 in PA01-A.							
Features	Miniaturized							
Applications	Power Applications							
C_R (μF)	160VDC			200VDC			250VDC	
220							25x25	
270							25x30	30x25
330				25x25			25x35	30x25
390				25x30			25x40	30x30
470	25x25			25x30	30x25		25x40	30x35
560	25x30			25x35	30x30		25x50	30x35
680	25x35	30x25		24x45	30x30	35x25		30x45
620	25x40	30x30	35x25	25x50	30x35	35x30		35x40
1000	25x45	30x35	35x30		30x45	35x35		35x45
1200	25x50	30x40	35x30		30x50	35x35		35x50
1500		30x45	35x35			35x45		
1800		30x50	35x45			35x50		
2200			35x50					
Endurance	2,000 Hrs @ 105°C With IR and For WVDC							
Temperature range	-40 to 105°C							
Tolerance	-20% to +20%							

DESCRIPTION OF CASE SIZE CODES					
Case Codes	D x L mm	Case Codes	D x L mm	Case Codes	D x L mm
BB	25x25	CB	30x25	DB	35x25
BC	25x30	CC	30x30	DC	35x30
BD	25x35	CD	30x35	DD	35x35
BE	25x40	CE	30x40	SE	35x40
BK	25x45	CK	30x45	DK	35x45
BF	25x50	CF	30x50	DF	35x50

Aluminum Electrolytic Capacitors Miniature General Purpose

PHILIPS



Series 2222 021 Miniature General Purpose Aluminum Electrolytic Capacitor

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Mounting ring version (single ended) not insulated
- Case sizes 10 x 30 mm to 21 x 40 mm with pressure relief
- Charge and discharge proof
- Taped versions up to case size 15 x 30 mm available for automatic insertion
- Miniaturized, high CU-product per unit volume.

Applications

- General purpose, industrial, automotive, audio-video
- Coupling, decoupling, smoothing, filtering, buffering and timing
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant.

Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance (in μF)
- Tolerance on nominal capacitance (in accordance with IEC 62)
- Rated voltage (in V)
- Group number (021)
- Name of manufacturer (PHILIPS)
- Date code in accordance with IEC 62
- Code for factory of origin
- Band to identify the negative terminal
- "+" - signs to identify the positive terminal (not for case sizes L < 18 mm).

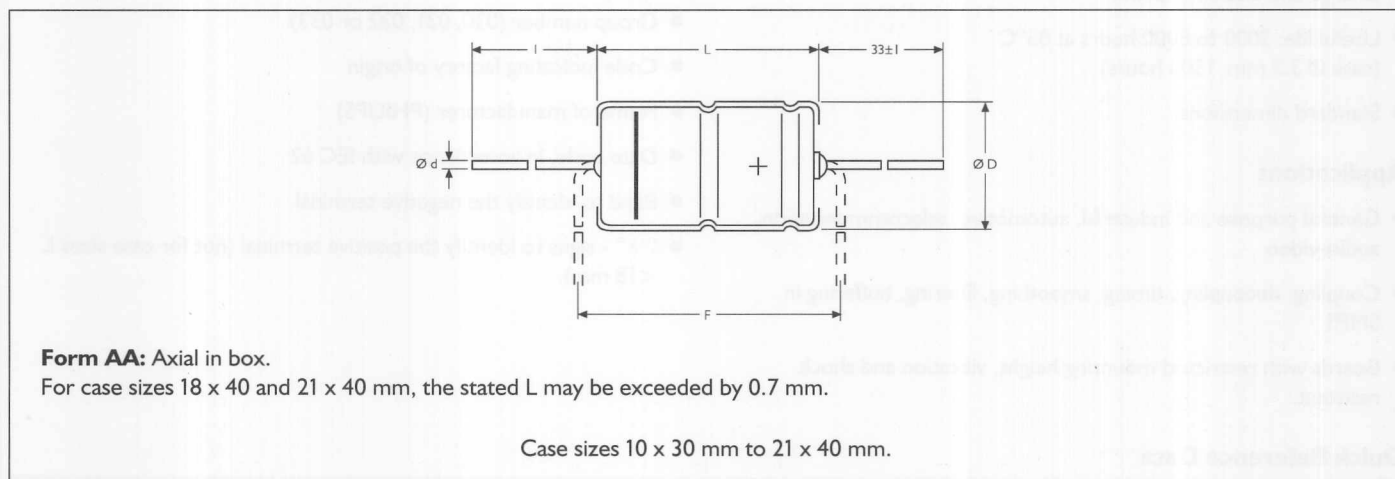
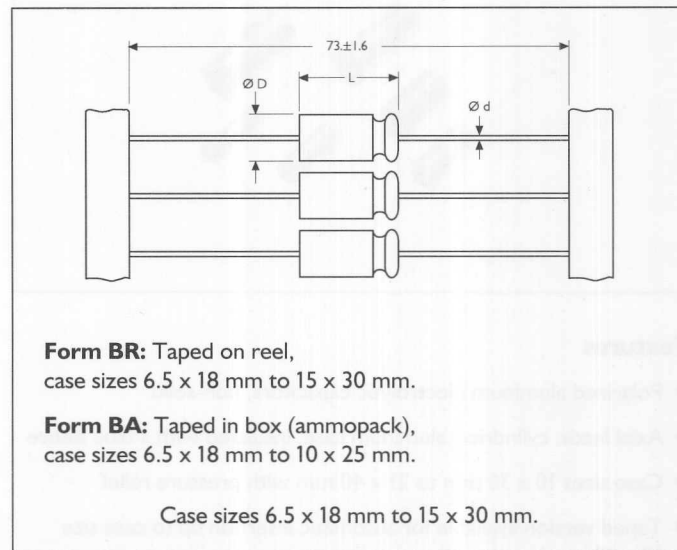
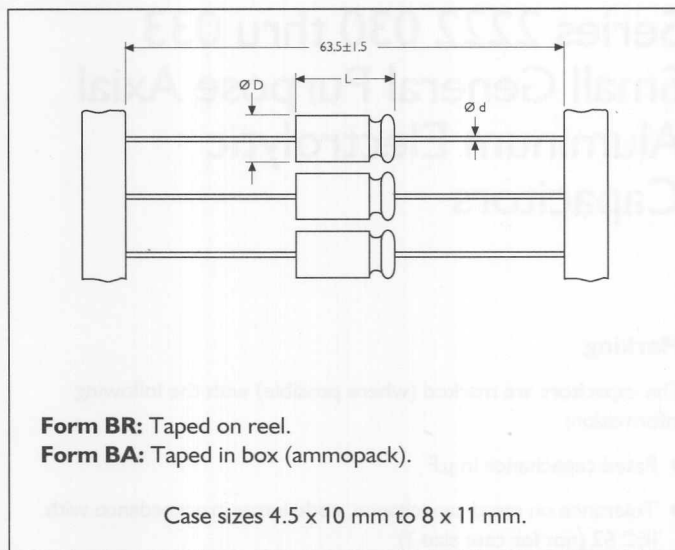
Quick Reference Data

Case size ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	4.5 x 10 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	0.22 to 15,000 μF	
Tolerance on C_R	$\pm 20\%$	
Rated voltage range, U_R	6.3 to 100 V	
Category temperature range	-40 to $+85^\circ\text{C}$	
Endurance test at 85°C $U_R = 6.3$ to 25 V $U_R = 40$ to 100 V	1000 hours 2000 hours	5000 hours 5000 hours
Useful life at 85°C	2500 hours	8000 hours
Useful life at 40°C , $1.4 \times I_R$ applied	70,000 hours	200,000 hours
Shelf life at 0 V, 85°C	500 hours	500 hours
Based on sectional specification $U_R = 6.3$ to 25 V $U_R = 40$ to 100 V	IEC 384-4/CECC 30,300 GP grade LL grade	IEC 384-4/CECC 30,300 LL grade LL grade
Detail specification	similar to DIN 45910-T126 (without approval), former DIN 41316 - with reduced dimensions	
Climatic category IEC 68 DIN 40040	40/085/56 GPF	

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

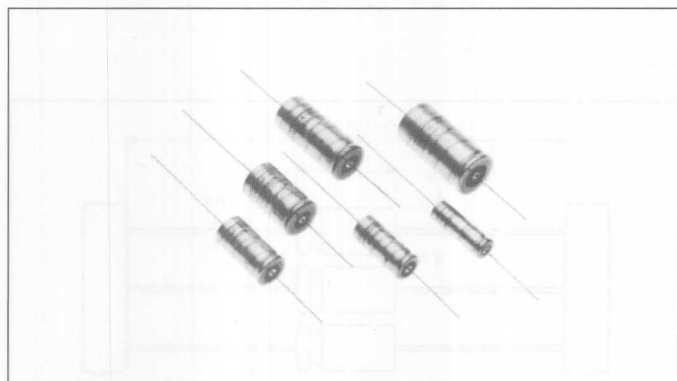
Packaging Styles and Dimensions

Dimensions in mm.



Aluminum Electrolytic Capacitors Small General Purpose Axial

PHILIPS



Series 2222 030 thru 033 Small General Purpose Axial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case sizes 10 x 30 mm to 21 x 40 mm with pressure relief
- Taped version available for automatic insertion up to case size 15 x 30 mm
- Charge and discharge proof
- Useful life: 3000 to 8000 hours at 85°C (case Ø 3.3 mm: 1500 hours)
- Standard dimensions.

Applications

- General purpose and industrial, automotive, telecommunication, audio-video
- Coupling, decoupling, timing, smoothing, filtering, buffering in SMPS
- Boards with restricted mounting height, vibration and shock resistant.

Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62 (not for case size 1)
- Rated voltage in V
- Group number (030, 031, 032 or 033)
- Code indicating factory of origin
- Name of manufacturer (PHILIPS)
- Date code, in accordance with IEC 62
- Band to identify the negative terminal
- "+" - signs to identify the positive terminal (not for case sizes L < 18 mm).

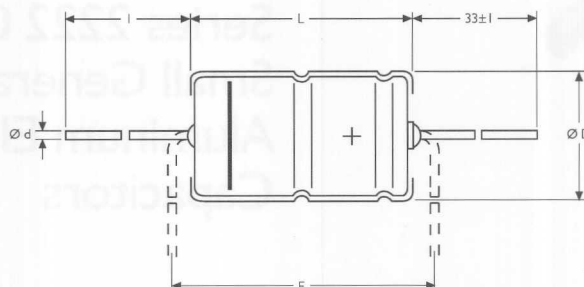
Quick Reference Data

Case size ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	3.3 x 11	4.5 x 10 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	0.33 to 15,000 μF		
Tolerance on C_R	- 10 to + 50%		
Rated voltage range, U_R	6.3 to 100 V		
Category temperature range	- 40 to + 85°C		
Endurance test at 85°C	1000 hours	2000 hours	5000 hours
Useful life at 85°C	1500 hours	3000 hours	8000 hours
Useful life at 40°C, $1.4 \times I_R$ applied	40,000 hours	80,000 hours	200,000 hours
Shelf life at 0 V, 85°C	500 hours		
Based on sectional specification	IEC 384-4/CECC 30,300		
	GP grade	LL grade	LL grade
Detail specification	similar to DIN 45910-T126 (without approval), former DIN 41316		
Climatic category IEC 68 DIN 40040	40/085/56 GPF		
Approvals	LNZ 44-04		

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

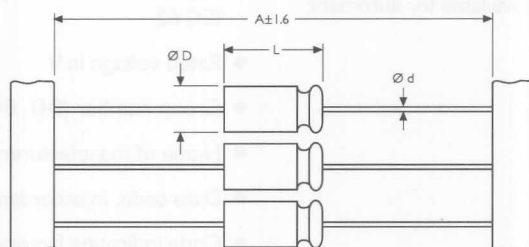
Packaging Styles and Dimensions

Dimensions in mm.



For case sizes 18 x 40 and 21 x 40 mm, the stated L_{max} may be exceeded by 0.7 mm.

Case sizes 10 x 30 mm to 21 x 40 mm **Form AA**: axial; for dimensions see Table 2.



Form BR: Taped on reel, case sizes 3.3 x 11 mm to 15 x 30 mm.

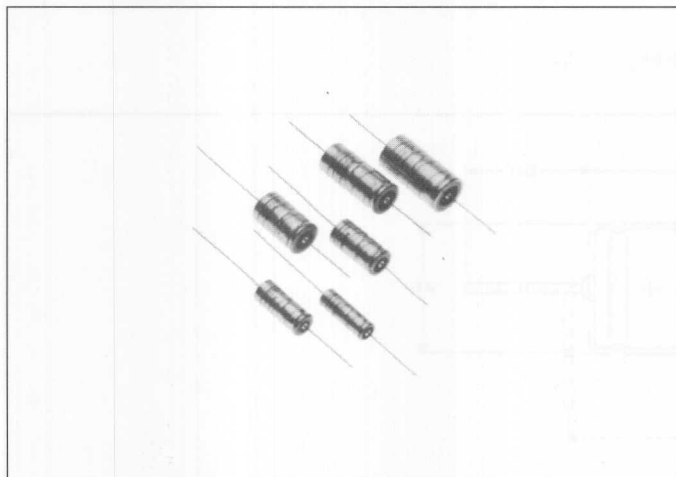
Form BA: Taped in box (ammopack), case sizes 3.3 x 11 mm to 10 x 25 mm.

Case sizes 3.3 x 11 mm to 15 x 30 mm, axial.

Aluminum Electrolytic Capacitors

Small General Purpose Axial

PHILIPS



Series 2222 041 thru 043

Small General Purpose Axial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case sizes 10 x 30 mm to 21 x 40 with pressure relief
- Taped versions up to case size 15 x 30 mm available for automatic insertion
- Charge and discharge proof
- Useful life:
5000 to 15,000 hours at 85°C
- High rated voltage: up to 400 V.

Applications

- General purpose, industrial, power supply, audio-video and lighting
- Smoothing, filtering, buffering at high voltages
- Boards with restricted mounting height, vibration and shock resistant.

Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62
- Rated voltage in V
- Group number (041, 042 or 043)
- Name of manufacturer (PHILIPS)
- Date code, in accordance with IEC 62
- Code indicating factory of origin
- Band to identify the negative terminal
- “+” - signs to identify the positive terminal.

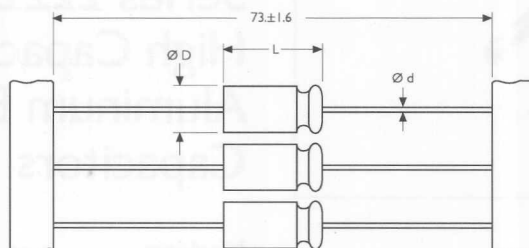
Quick Reference Data

Case size ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	6.5 x 18 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	1 to 220 μF	
Tolerance on C_R	-10 to +50%	
Rated voltage range, U_R	160 to 400 V	
Category temperature range	-40 to +85°C	
Endurance test at 85°C	2000 hours	8000 hours
Useful life at 85°C	5000 hours	15,000 hours
Useful life at 40°C	120,000 hours (1.4 I_R applied)	240,000 hours (1.8 I_R applied)
Shelf life at 0 V, 85°C	500 hours	500 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade	
Detail specification	similar to DIN 45910-T126 (without approval), former DIN 41316	similar to DIN 45910-T123 (without approval), former DIN 41257
Climatic category IEC 68 DIN 40040	40/085/56 GPF	

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Packaging Styles and Dimensions

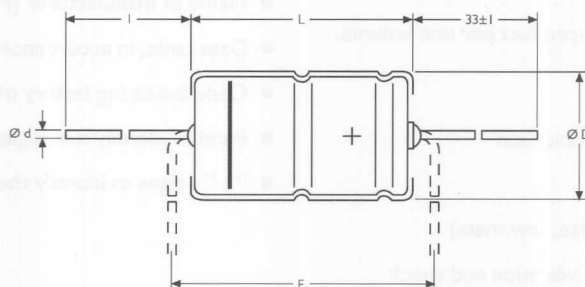
Dimensions in mm.



Form BR: Taped on reel, case sizes 6.5 x 18 mm to 15 x 30 mm.

Form BA: Taped in box (ammopack), case sizes 6.5 x 18 mm to 10 x 25 mm.

Case sizes 6.5 x 18 mm to 15 x 30 mm.



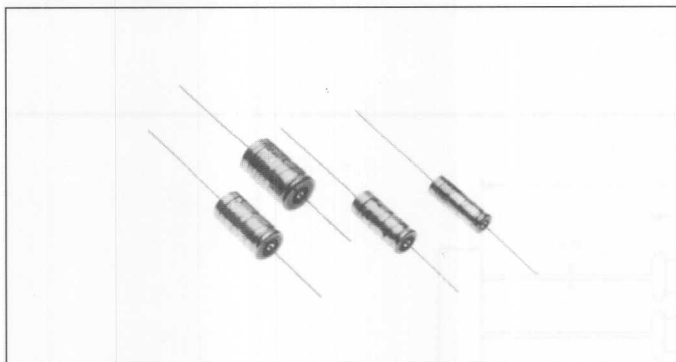
Form AA: Axial in box.

For case sizes 18 x 40 and 21 x 40 mm, the stated L may be exceeded by 0.7 mm.

Case sizes 10 x 30 mm to 21 x 40 mm.

Aluminum Electrolytic Capacitors High Capacitance Axial

PHILIPS



Series 2222 049 High Capacitance Axial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case with pressure relief, insulated with a blue sleeve
- Taped version up to case size 15 x 30 mm available for automatic insertion
- Charge and discharge proof
- Useful life: 5000 hours at 85°C
- Highly miniaturized, extremely high CU-product per unit volume.

Applications

- Audio-video, automotive and telecommunication
- Smoothing, filtering, buffering, timing
- Portable and mobile equipment (small size, low mass)
- Boards with restricted mounting height, vibration and shock resistant
- Equipment in compact design.

Marking

The capacitors are marked (where possible) with the following information:

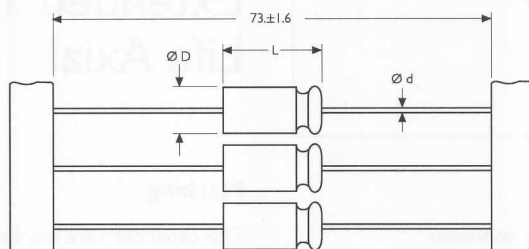
- Rated capacitance in μF
- Tolerance on rated capacitance
- Rated voltage in V
- Group number (049)
- Name of manufacturer (PHILIPS)
- Date code, in accordance with IEC 62
- Code indicating factory of origin
- Band to identify the negative terminal
- "+" - signs to identify the positive terminal.

Quick Reference Data

Case sizes ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	10 x 30 to 21 x 40
Rated capacitance range, C_R	330 to 22,000 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	10 to 63 V
Category temperature range	-40 to +85°C
Endurance test at 85°C	2000 hours
Useful life at 85°C	5000 hours
Useful life at 40°C, 1.4 I_R applied	120,000 hours
Shelf life at 0 V, 85°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	similar to DIN 45910-T126 (without approval), former DIN 41316 - with reduced dimensions
Climatic category IEC 68 DIN 40040	40/085/56 GPF

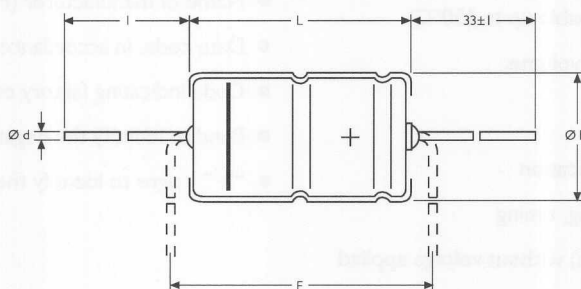
Available Forms and Packaging Styles and Dimensions

Dimensions in mm.



Form BR: Taped on reel.

Case sizes 10 x 30 mm to 15 x 30 mm.



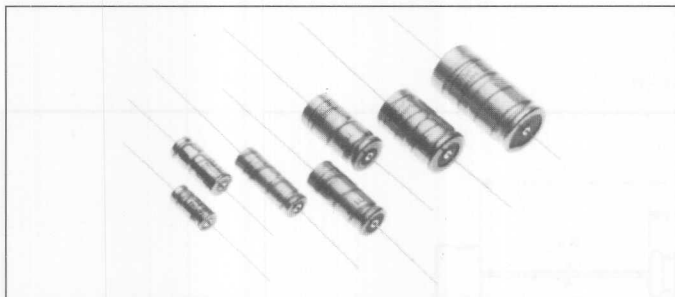
Form AA: Axial in box.

For case sizes 18 x 40 and 21 x 40 mm, the stated L may be exceeded by 0.7 mm.

Case sizes 10 x 30 mm to 21 x 40 mm.

Aluminum Electrolytic Capacitors Extended Temperature Long Life Axial

PHILIPS



Series 2222 118 Extended Temperature Long Life Axial

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case sizes 10 x 30 mm to 21 x 40 mm with pressure relief
- Taped versions up to case size 15 x 30 mm available for automatic insertion
- Charge and discharge proof
- Extra long useful life: 4000 hours at 125°C, high reliability
- Extended temperature range: 125°C (usable up to 150°C)
- Miniaturized, high CU-product per unit volume.

Applications

- Automotive, industrial and telecommunication
- Smoothing, filtering, coupling, decoupling, timing
- For use after very long storage (10 years) without voltage applied
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant
- Outdoor applications, e.g. aerial amplifiers.

Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62
- Rated voltage in V (at 125°C and at 85°C)
- Group number (118)
- Name of manufacturer (PHILIPS)
- Date code, in accordance with IEC 62
- Code indicating factory of origin
- Band to identify the negative terminal
- “+” - signs to identify the positive terminal.

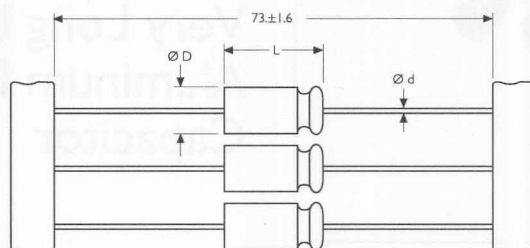
Quick Reference Data

Case sizes ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	6.5 x 18 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	1 to 15,000 μF	
Tolerance on C_R	$\pm 20\%$	
Rated voltage range, U_R	6.3 to 200 V	
Category temperature range	-40 to +125°C	-55 to +125°C
Endurance test at 150°C, with no I_R applied	500 hours	1000 hours
Endurance test at 125°C	2000 hours	3000 hours
Useful life at 125°C	4000 hours	4000 hours
Useful life at 40°C, 1.8 I_R applied	500,000 hours	500,000 hours
Shelf life at 0 V, 125°C 6.3 to 63 V types 100 and 200 V types	500 hours 100 hours	
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade	
Detail specification	similar to DIN 45910-T123 (without approval), former DIN 41257 - with reduced dimensions	
Climatic category IEC 68 DIN 40040	40/125/56 GKD	55/125/56 FKD

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Packaging Styles and Dimensions

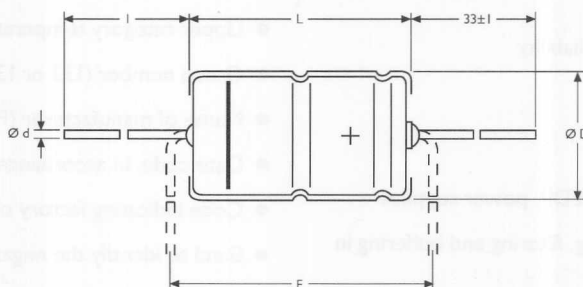
Dimensions in mm.



Form BR: Taped on reel, case sizes 6.5 x 18 mm to 15 x 30 mm.

Form BA: Taped in box (ammopack), case sizes 6.5 x 18 mm to 10 x 25 mm.

Case sizes 6.5 x 18 mm to 15 x 30 mm.



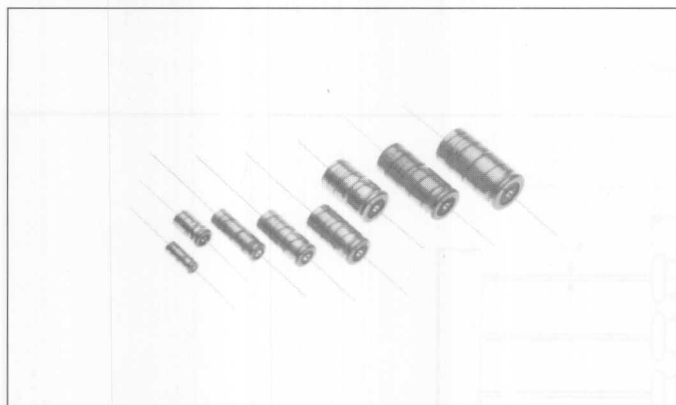
Form AA: Axial in box.

For case sizes 18 x 40 and 21 x 40 mm, the stated limit may be exceeded by 0.7 mm.

Case sizes 10 x 30 mm to 21 x 40 mm.

Aluminum Electrolytic Capacitors Very Long Life Axial

PHILIPS



Series 2222 132/133 Very Long Life Axial Aluminum Electrolytic Capacitor

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case sizes 10 x 30 mm to 21 x 40 mm with pressure relief
- Taped versions up to 15 x 30 mm available for automatic insertion
- Charge and discharge proof
- Long useful life:
10,000 to 15,000 hours at 85°C, high reliability
- High ripple current capability.

Applications

- General industrial, telecommunication, EDP, power supplies
- Coupling, decoupling, timing, smoothing, filtering and buffering in SMPS
- Boards with restricted mounting height, vibration and shock resistant.

Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62
- Rated voltage in V
- Upper category temperature (85°C)
- Group number (132 or 133)
- Name of manufacturer (PHILIPS)
- Date code, in accordance with IEC 62
- Code indicating factory of origin
- Band to identify the negative terminal.

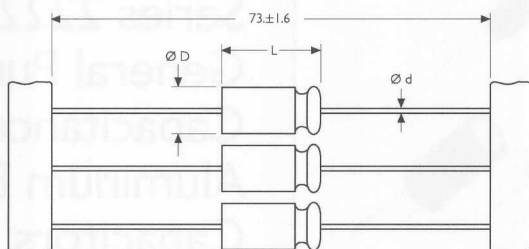
Quick Reference Data

Case sizes ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	6.5 x 18 and 8 x 18	10 x 18 and 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	1 to 4700 μF		
Tolerance on C_R	-10 to +50%		
Rated voltage range, U_R	10 to 400 V		
Category temperature range	-40 to +85°C		
Endurance test at 105°C	2000 hours	2000 hours	-
Endurance test at 85°C	6000 hours	8000 hours	8000 hours
Useful life at 105°C	3000 hours	3000 hours	-
Useful life at 85°C	10,000 hours	15,000 hours	15,000 hours
Useful life at 40°C, 1.8 I_R applied	160,000 hours	240,000 hours	240,000 hours
Shelf life at 0 V, 85°C	500 hours		
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade		
Detail specification	DIN 45910-T 123, former DIN 41257, UTE C031/C033 (without approval)		
Climatic category IEC 68 DIN 40040	40/085/56 GPF		
Approvals	CECC 30 301-056		CECC 30 301-801

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Packaging Styles and Dimensions

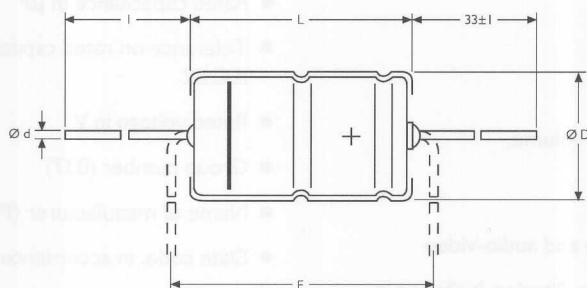
Dimensions in mm.



Form BR: Taped on reel, case sizes 6.5 x 18 mm to 15 x 30 mm.

Form BA: Taped in box (ammopack), case sizes 6.5 x 18 mm to 10 x 25 mm.

Case sizes 6.5 x 18 mm to 15 x 30 mm.

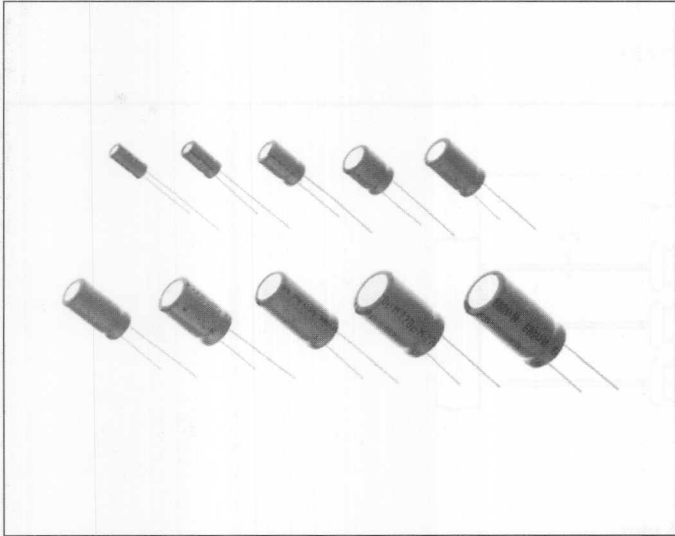


Form AA: Axial in box.

For case sizes 18 x 40 and 21 x 40 mm, the stated L may be exceeded by 0.7 mm.

Case sizes 10 x 30 mm to 21 x 40 mm.

Aluminum Electrolytic Capacitors General Purpose High Capacitance Radial



Series 2222 037 General Purpose High Capacitance Radial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Radial leads, cylindrical aluminum case, insulated with a blue vinyl sleeve
- Pressure relief for case $\varnothing \geq 6.3$ mm
- Charge and discharge proof
- Miniaturized, high CU-product per unit volume.

Applications

- General purpose, industrial, automotive and audio-video
- Coupling, decoupling, timing, smoothing, filtering, buffering in SMPS
- Portable and mobile equipment (small size, low mass)
- Low surface demand on printed-circuit board.

Marking

The capacitors are marked (where possible) with the following information:

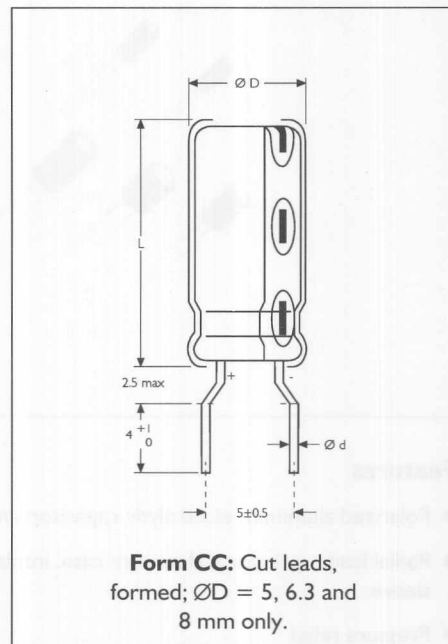
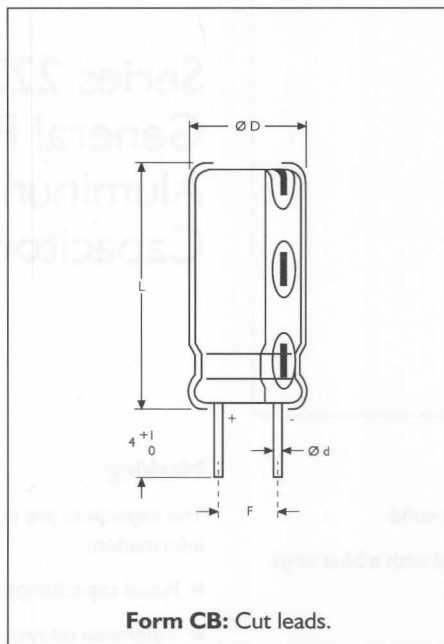
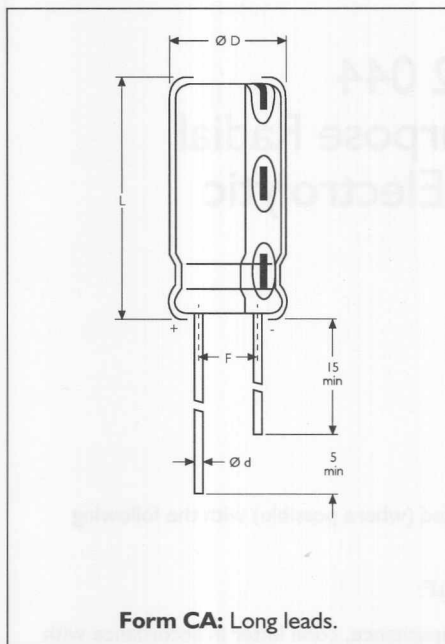
- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62
- Rated voltage in V
- Group number (037)
- Name of manufacturer (PHILIPS)
- Date code, in accordance with IEC 62
- Code indicating factory of origin
- Negative terminal identification.

Quick Reference Data

Case sizes ($\varnothing_{\text{nom}} \times L_{\text{nom}}$)	5 x 11 to 16 x 31 mm
Rated capacitance range, C_R	0.47 to 10,000 μF
Tolerance on C_R	$\pm 20\%$ ($\pm 10\%$ on request)
Rated voltage range, U_R	6.3 to 100 V
Category temperature range	-40 to $+85^\circ\text{C}$
Endurance test at 85°C	2000 hours
Useful life at 85°C	2500 hours
Useful life at 40°C , $1.4 I_R$ applied	70,000 hours
Shelf life at 0 V, 85°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30,300, GP grade
Detail specification	similar to DIN 45910-T124 (without approval), former DIN 41259 - with reduced dimensions
Climatic category IEC 68 DIN 40040	40/085/56 GPF

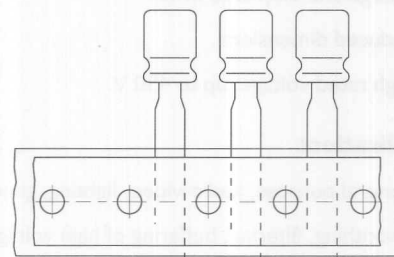
Packaging Styles and Dimensions

Dimensions in mm.

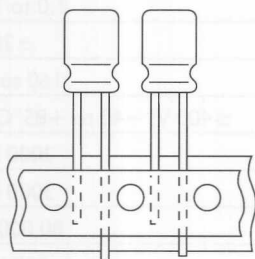


Form TR +: Taped on reel, positive leading.

Form TFA: Taped in box (ammopack).



Taped, formed, pitch 5 mm; $\text{ØD} = 5 \text{ to } 8 \text{ mm.}$



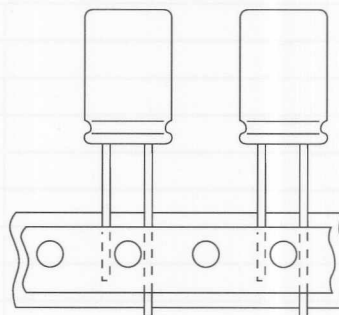
Form TN+ and TNA:

$\text{ØD } 5 \text{ mm: } F = 2.5 \text{ mm}$

(leads slightly bent)

$\text{ØD } 6.3 \text{ mm: } F = 2.5 \text{ mm}$

$\text{ØD } 8 \text{ mm: } F = 3.5 \text{ mm}$



Form TFA:

$\text{ØD } 16 \text{ mm: } F = 7.5 \text{ mm}$

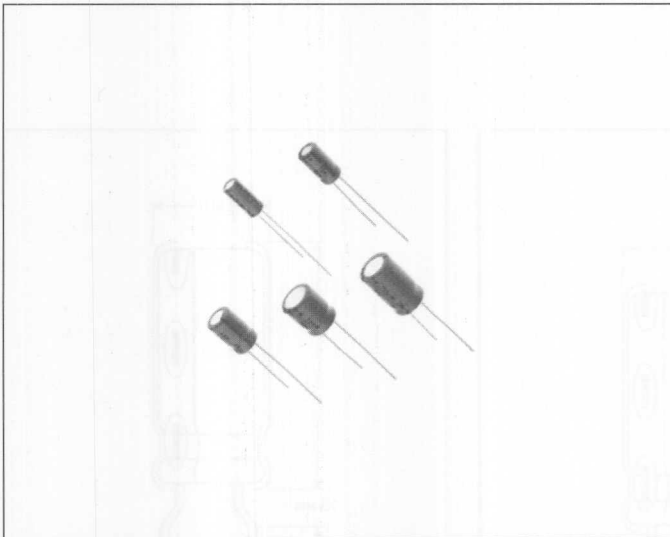
Form TFA:

$\text{ØD } 10 \text{ and } 12.5 \text{ mm: } F = 5 \text{ mm}$

Taped Straight Leads

Aluminum Electrolytic Capacitors General Purpose Radial

PHILIPS



Series 2222 044 General Purpose Radial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Radial leads, cylindrical aluminum case, insulated with a blue vinyl sleeve
- Pressure relief
- Charge and discharge proof
- Reduced dimensions
- High rated voltage, up to 450 V.

Applications

- General purpose, audio-video, lighting, general industrial
- Smoothing, filtering, buffering of high voltages
- Low surface demand on printed circuit board.

Marking

The capacitors are marked (where possible) with the following information:

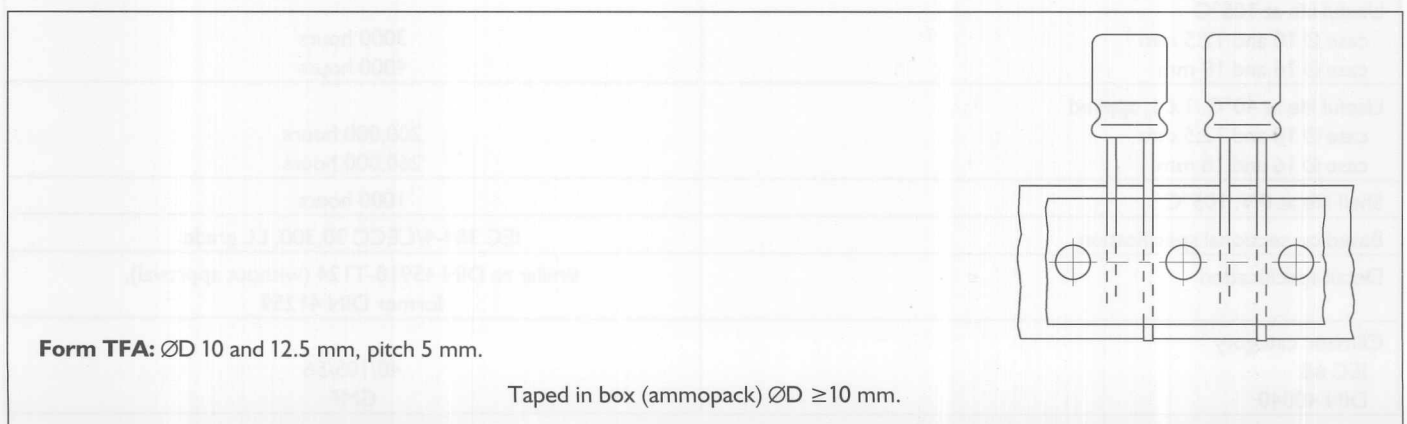
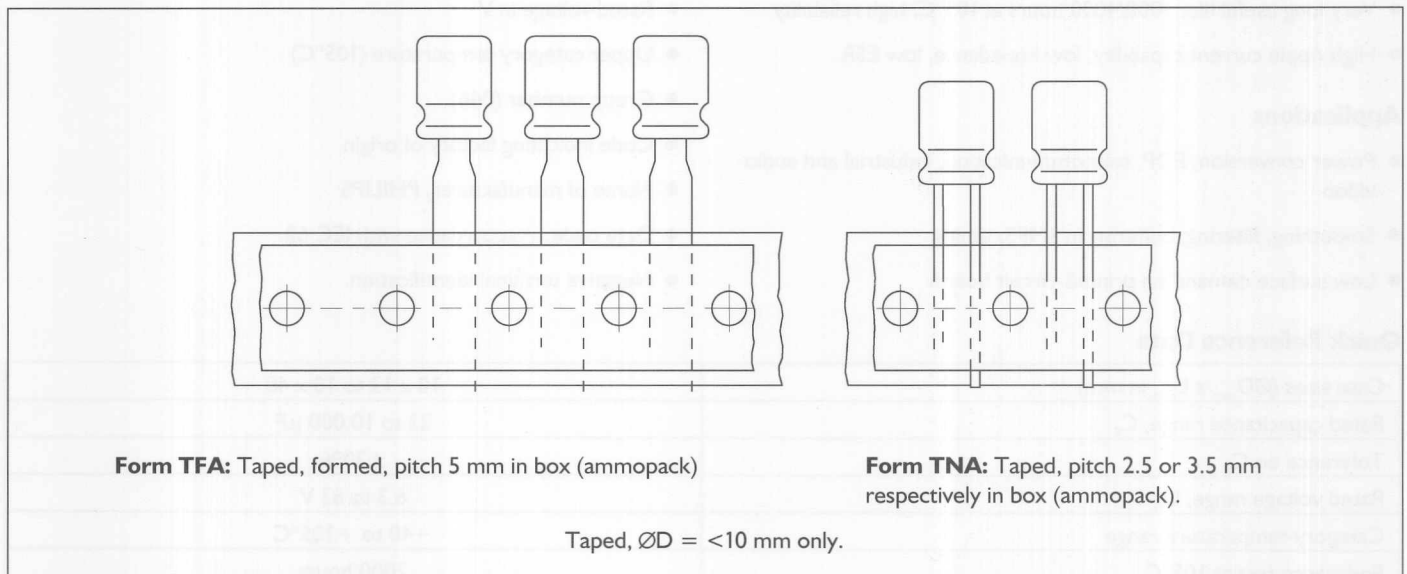
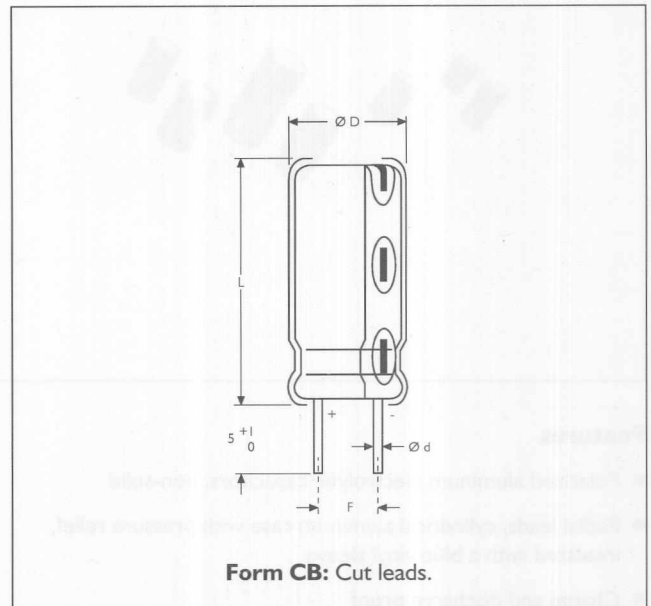
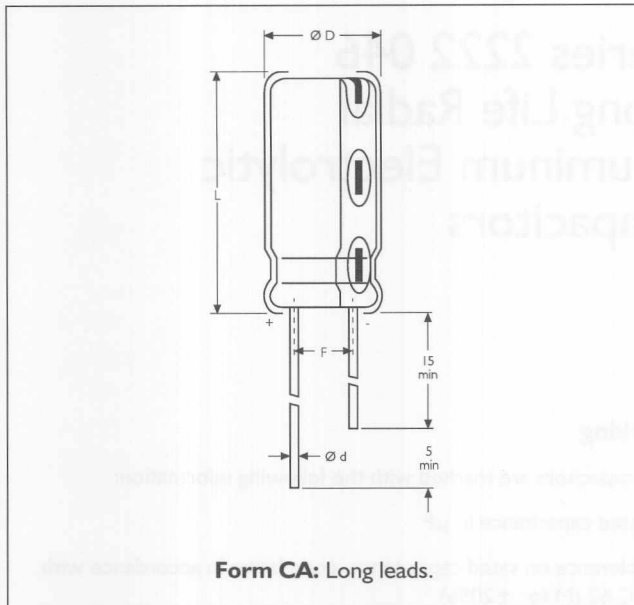
- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62
- Rated voltage in V
- Group number (044)
- Name of manufacturer (PHILIPS)
- Date code, in accordance with IEC 62
- Code indicating factory of origin
- Negative terminal identification.

Quick Reference Data

Case sizes ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	6.3 x 11 to 16 x 31
Rated capacitance range, C_R	1.0 to 100 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	160 to 450 V
Category temperature range	$\leq 400 \text{ V: } -40 \text{ to } +85^\circ\text{C}; 450 \text{ V: } -25 \text{ to } +85^\circ\text{C}$
Endurance test at 85°C	2000 hours
Useful life at 85°C	3000 hours
Useful life at 40°C , $1.4 I_R$ applied	80,000 hours
Shelf life at 0 V, 85°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	similar to DIN 45910-T124 (without approval), former DIN 41259
Climatic category IEC 68 DIN 40040	$\leq 400 \text{ V: } 40/085/56; 450 \text{ V: } 25/085/56$ $\leq 400 \text{ V: GPF; } 450 \text{ V: HPF}$

Packaging Styles and Dimensions

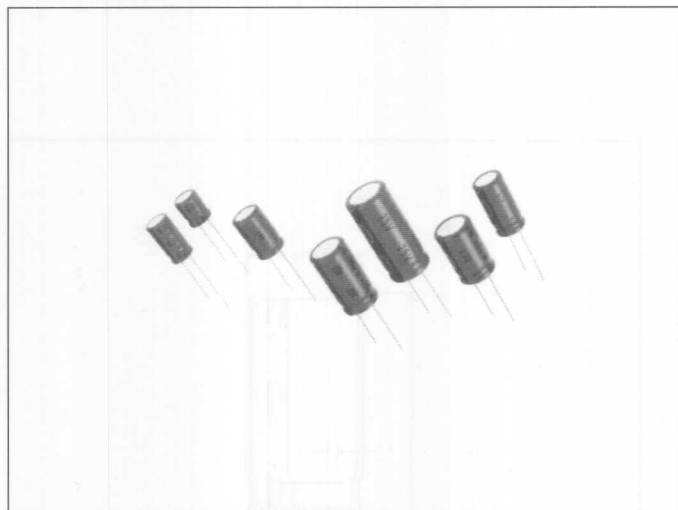
Dimensions in mm.



FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Aluminum Electrolytic Capacitors Long Life Radial

PHILIPS



Series 2222 046 Long Life Radial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Radial leads, cylindrical aluminum case with pressure relief, insulated with a blue vinyl sleeve
- Charge and discharge proof
- Very long useful life, 3000/4000 hours at 105°C, high reliability
- High ripple current capability, low impedance, low ESR.

Applications

- Power conversion, EDP, telecommunication, industrial and audio-video
- Smoothing, filtering, buffering in SMPS, timing
- Low surface demand on printed-circuit board.

Marking

The capacitors are marked with the following information:

- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62 (M for $\pm 20\%$)
- Rated voltage in V
- Upper category temperature (105°C)
- Group number (046)
- Code indicating factory of origin
- Name of manufacturer, PHILIPS
- Date code, in accordance with IEC 62
- Negative terminal identification.

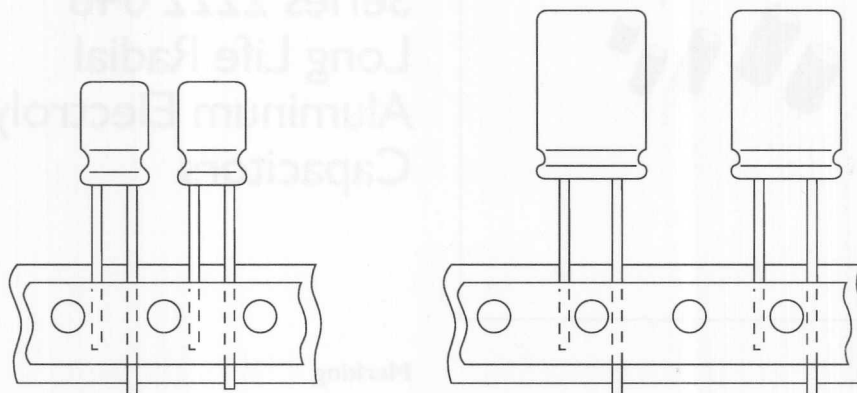
Quick Reference Data

Case sizes ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	10 x 12 to 18 x 40
Rated capacitance range, C_R	22 to 10,000 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	6.3 to 63 V
Category temperature range	-40 to +105°C
Endurance test at 105°C	2000 hours
Useful life at 105°C case \varnothing 10 and 12.5 mm case \varnothing 16 and 18 mm	3000 hours 4000 hours
Useful life at 40°C, 1.6 I_R applied case \varnothing 10 and 12.5 mm case \varnothing 16 and 18 mm	200,000 hours 260,000 hours
Shelf life at 0 V, 105°C	1000 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	similar to DIN 45910-T124 (without approval), former DIN 41259
Climatic category IEC 68 DIN 40040	40/105/56 GMF

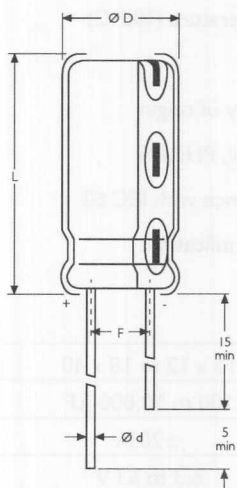
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Packaging Styles and Dimensions

Dimensions in mm.

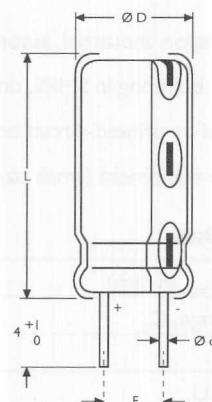


Form TFA: Case sizes up to 16 x 31 mm. Taped in box (ammopack).



Dimensions in mm.

Form CA: Long leads.



Dimensions in mm.

Form CB: Cut leads.

Aluminum Electrolytic Capacitors Long Life Radial



Series 2222 048 Long Life Radial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Radial leads, cylindrical aluminum case with pressure relief, insulated with a blue vinyl sleeve
- Charge and discharge proof
- Miniaturized, high CU product per unit volume
- Very long useful life, 3000 to 4000 hours at 105°C, high reliability

Applications

- EDP, telecommunication, industrial, automotive and audio-video
- Smoothing, filtering, buffering in SMPS, timing
- Low surface demand on printed-circuit board.
- Portable and mobile equipment (small size, low mass).

Marking

The capacitors are marked with the following information:

- Rated capacitance value
- Tolerance on rated capacitance, code letter in accordance with IEC 62 (M for $\pm 20\%$)
- Rated voltage in V
- Upper category temperature (105°C)
- Group number (048)
- Code indicating factory of origin
- Name of manufacturer, PHILIPS
- Date code, in accordance with IEC 62
- Negative terminal identification.

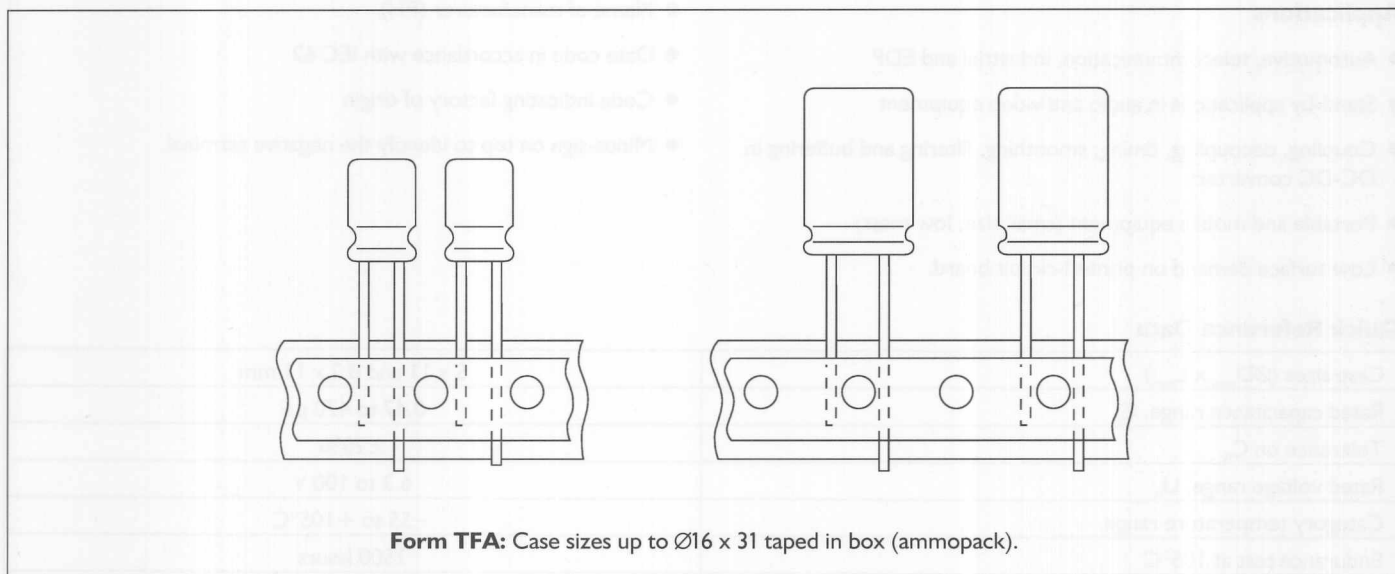
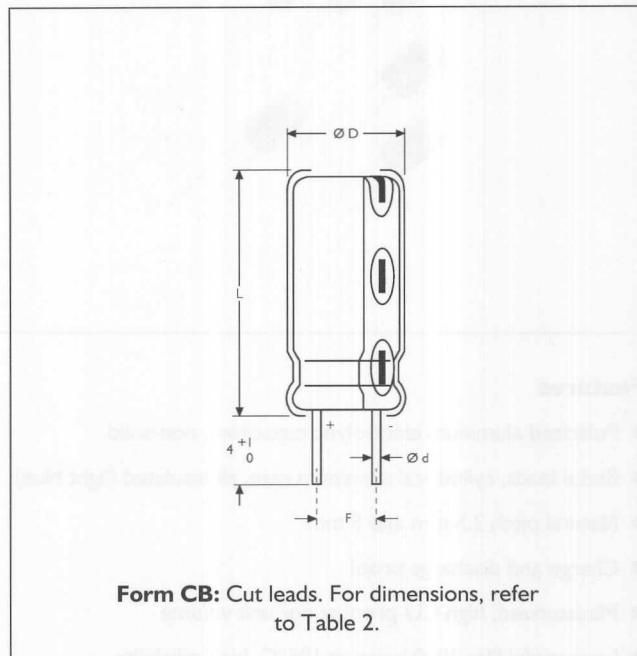
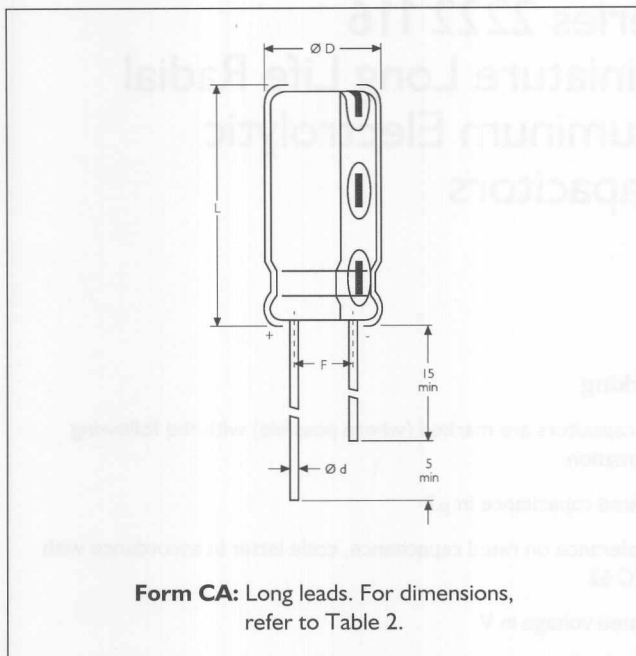
Quick Reference Data

Case sizes ($\varnothing D_{nom} \times L_{nom}$ in mm)	10 x 12 to 18 x 40
Rated capacitance range, C_R	100 to 10,000 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	6.3 to 63 V
Category temperature range	-40 to +105°C
Endurance test at 105°C	2000 hours
Useful life at 105°C case $\varnothing 10$ and 12.5 mm case $\varnothing 16$ and 18 mm	3000 hours 4000 hours
Useful life at 40°C, 1.6 I_R applied case $\varnothing 10$ and 12.5 mm case $\varnothing 16$ and 18 mm	200,000 hours 260,000 hours
Shelf life at 0 V, 105°C	1000 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	similar to DIN 45910-T124 (without approval), former DIN 41259 - with reduced dimensions
Climatic category IEC 68 DIN 40040	40/105/56 GMF

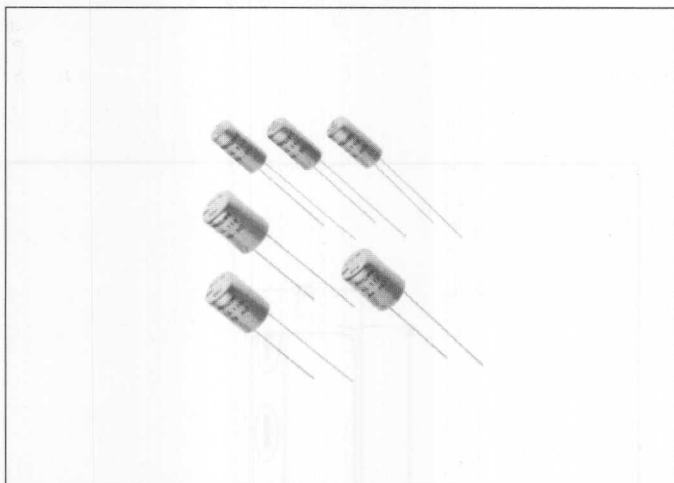
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Packaging Styles and Dimensions

Dimensions in mm.



Aluminum Electrolytic Capacitors Miniature Long Life Radial



Series 2222 116 Miniature Long Life Radial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Radial leads, cylindrical aluminum case, all-insulated (light blue)
- Natural pitch 2.5 mm and 5 mm
- Charge and discharge proof
- Miniaturized, high CU-product per unit volume
- Long useful life: 2000 hours at 105°C, high reliability.

Applications

- Automotive, telecommunication, industrial and EDP
- Stand-by applications in audio and video equipment
- Coupling, decoupling, timing; smoothing, filtering and buffering in DC-DC converters
- Portable and mobile equipment (small size, low mass)
- Low surface demand on printed-circuit board.

Marking

The capacitors are marked (where possible) with the following information:

- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62
- Rated voltage in V
- Group number (116)
- Name of manufacturer (PH)
- Date code in accordance with IEC 62
- Code indicating factory of origin
- Minus-sign on top to identify the negative terminal.

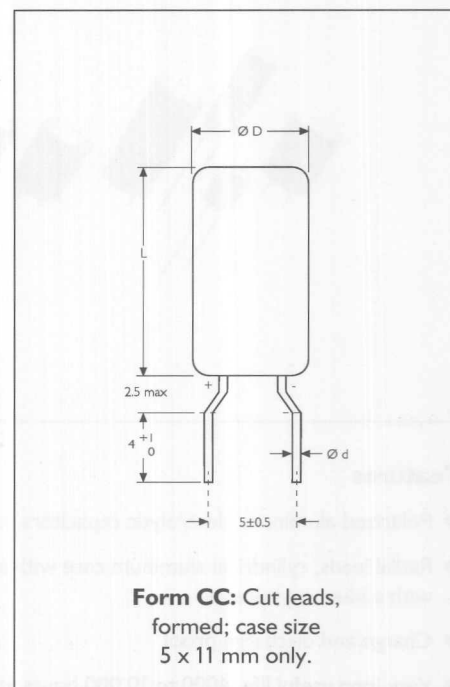
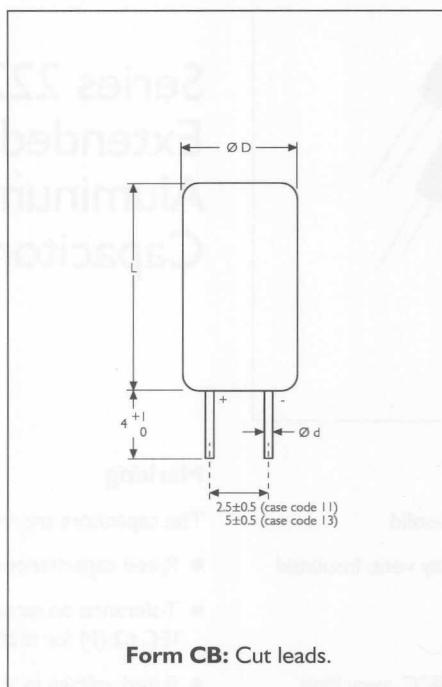
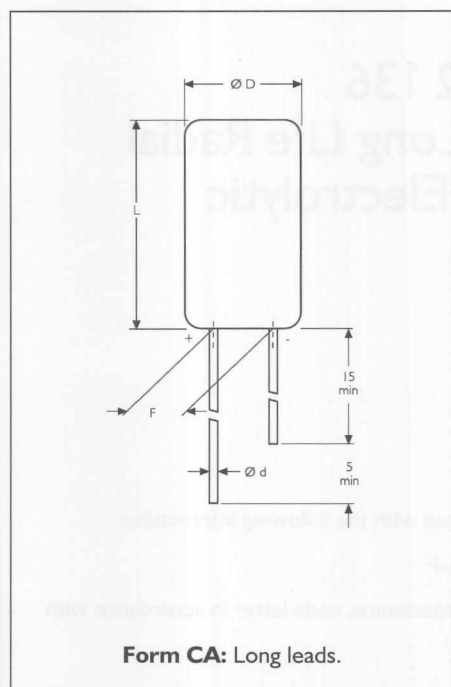
Quick Reference Data

Case sizes ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$)	5 x 11 and 8.2 x 11 mm
Rated capacitance range, C_R	0.47 to 470 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	6.3 to 100 V
Category temperature range	-55 to +105°C
Endurance test at 105°C	1500 hours
Endurance test at 85°C	5000 hours
Useful life at 105°C	2000 hours
Useful life at 40°C, 1.3 I_R applied	200,000 hours
Shelf life at 0 V, 105°C	1500 hours
Based on sectional specification	IEC 384-4/CECC 30,300
Detail specification	similar to DIN 45910-T124 (without approval), former DIN 41259 (with reduced dimensions)
Climatic category IEC 68 DIN 40040	55/105/56 FMF

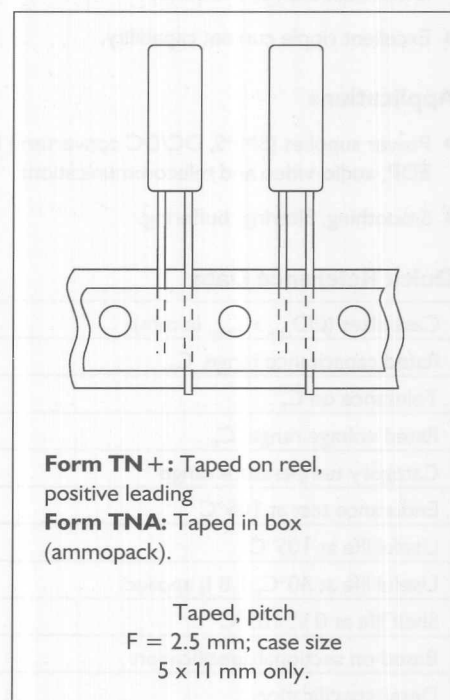
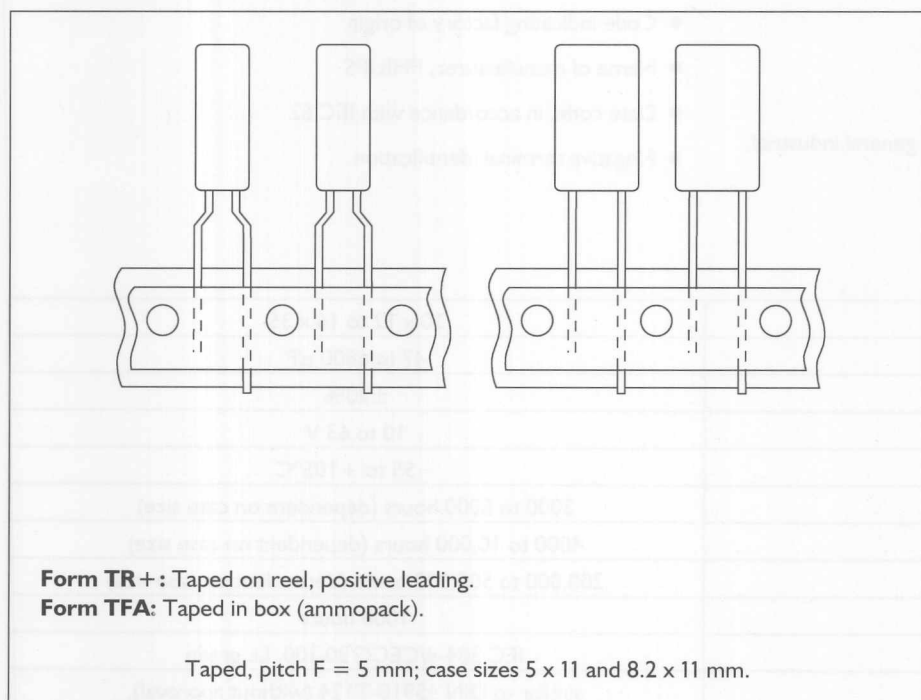
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

Packaging Styles and Dimensions

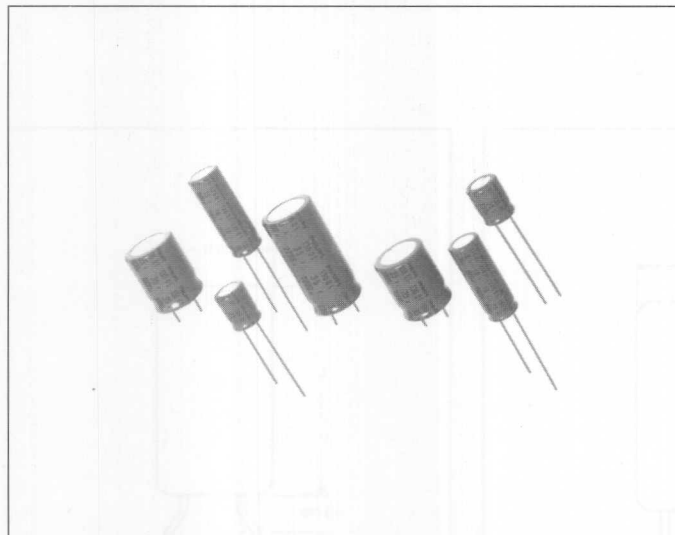
Dimensions in mm.



Tape dimensions are specified in chapter "PACKING."



Aluminum Electrolytic Capacitors Extended Long Life Radial



Series 2222 136 Extended Long Life Radial Aluminum Electrolytic Capacitors

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Radial leads, cylindrical aluminum case with safety vent, insulated with a blue vinyl sleeve
- Charge and discharge proof
- Very long useful life, 4000 to 10,000 hours at 105°C, very high reliability
- Very low impedance or ESR respectively, which is significantly lower than the RLI 135 series
- Excellent ripple current capability.

Applications

- Power supplies (SMPS, DC/DC converters) for general industrial, EDP, audio-video and telecommunications
- Smoothing, filtering, buffering.

Marking

The capacitors are marked with the following information:

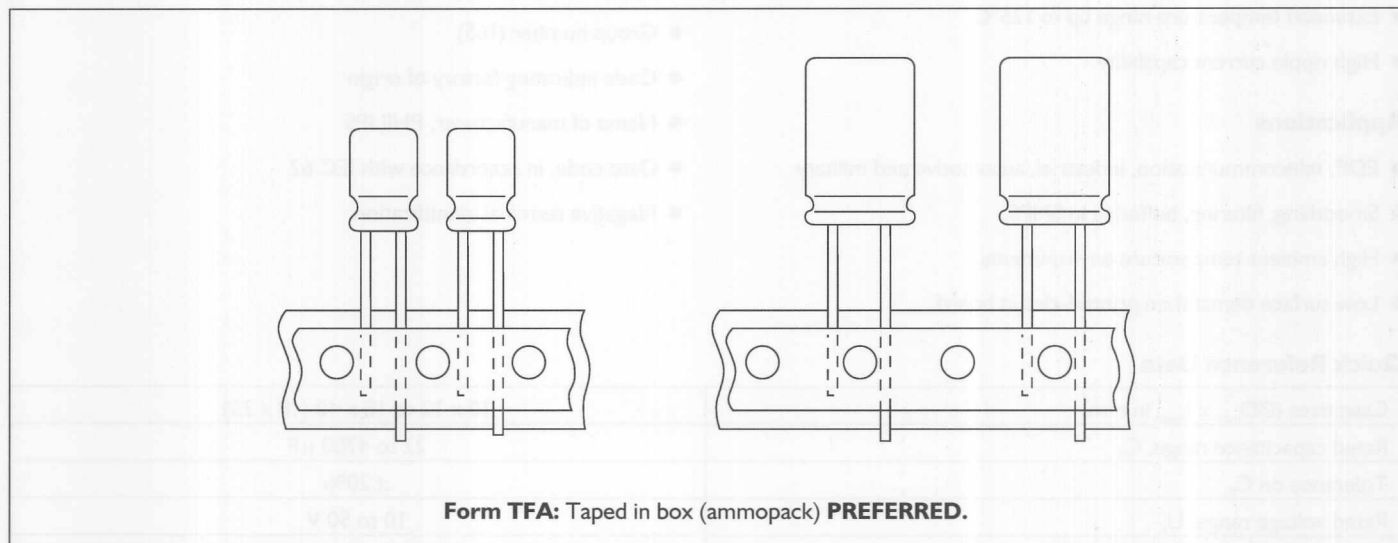
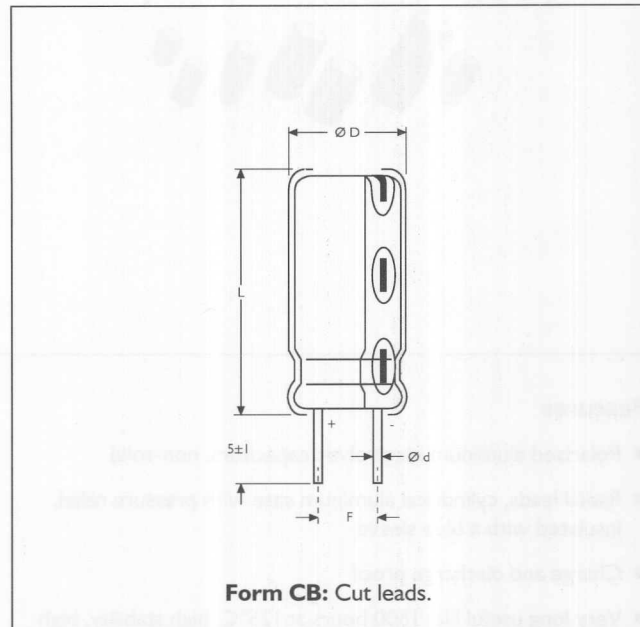
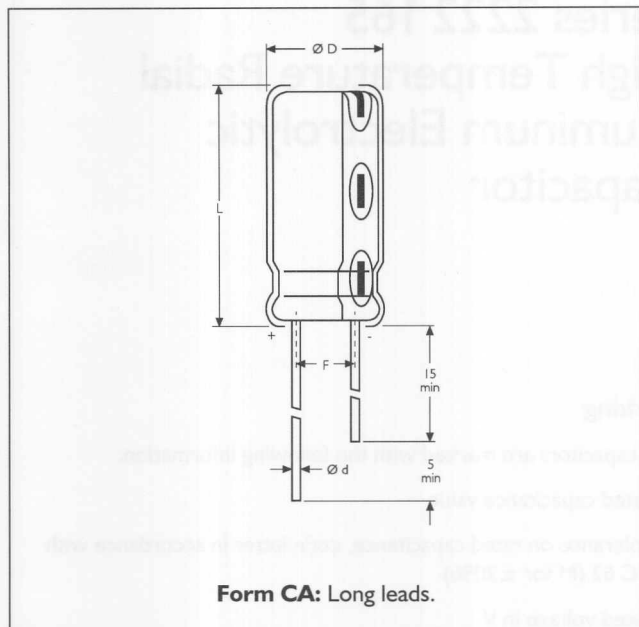
- Rated capacitance in μF
- Tolerance on rated capacitance, code letter in accordance with IEC 62 (M for $\pm 20\%$)
- Rated voltage in V
- Upper category temperature (105°C)
- Group number (136)
- Code indicating factory of origin
- Name of manufacturer, PHILIPS
- Date code, in accordance with IEC 62
- Negative terminal identification.

Quick Reference Data

Case sizes ($\varnothing D_{\text{nom}} \times L_{\text{nom}}$ in mm)	10 x 12 to 16 x 35
Rated capacitance range, C_R	47 to 6800 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, C_R	10 to 63 V
Category temperature range	-55 to +105°C
Endurance test at 105°C	3000 to 5000 hours (dependent on case size)
Useful life at 105°C	4000 to 10,000 hours (dependent on case size)
Useful life at 40°C, 1.8 I_R applied	200,000 to 500,000 hours (dependent on case size)
Shelf life at 0 V, 105°C	1000 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	similar to DIN 45910-T124 (without approval), former DIN 41259 - with reduced dimensions
Climatic category IEC 68 (DIN 40040)	55/105/56 (FMF)

Packaging Styles and Dimensions

Dimensions in mm.



Aluminum Electrolytic Capacitors High Temperature Radial



Series 2222 165 High Temperature Radial Aluminum Electrolytic Capacitor

Features

- Polarized aluminum electrolytic capacitors, non-solid
- Radial leads, cylindrical aluminum case with pressure relief, insulated with a blue sleeve
- Charge and discharge proof
- Very long useful life: 1500 hours at 125°C, high stability, high reliability
- Extended temperature range up to 125°C
- High ripple current capability.

Applications

- EDP, telecommunication, industrial, automotive and military
- Smoothing, filtering, buffering in SMPS.
- High ambient temperature environments
- Low surface demand on printed-circuit board.

Marking

The capacitors are marked with the following information:

- Rated capacitance value
- Tolerance on rated capacitance, code letter in accordance with IEC 62 (M for $\pm 20\%$)
- Rated voltage in V
- Upper category temperature (125°C)
- Group number (165)
- Code indicating factory of origin
- Name of manufacturer, PHILIPS
- Date code, in accordance with IEC 62
- Negative terminal identification.

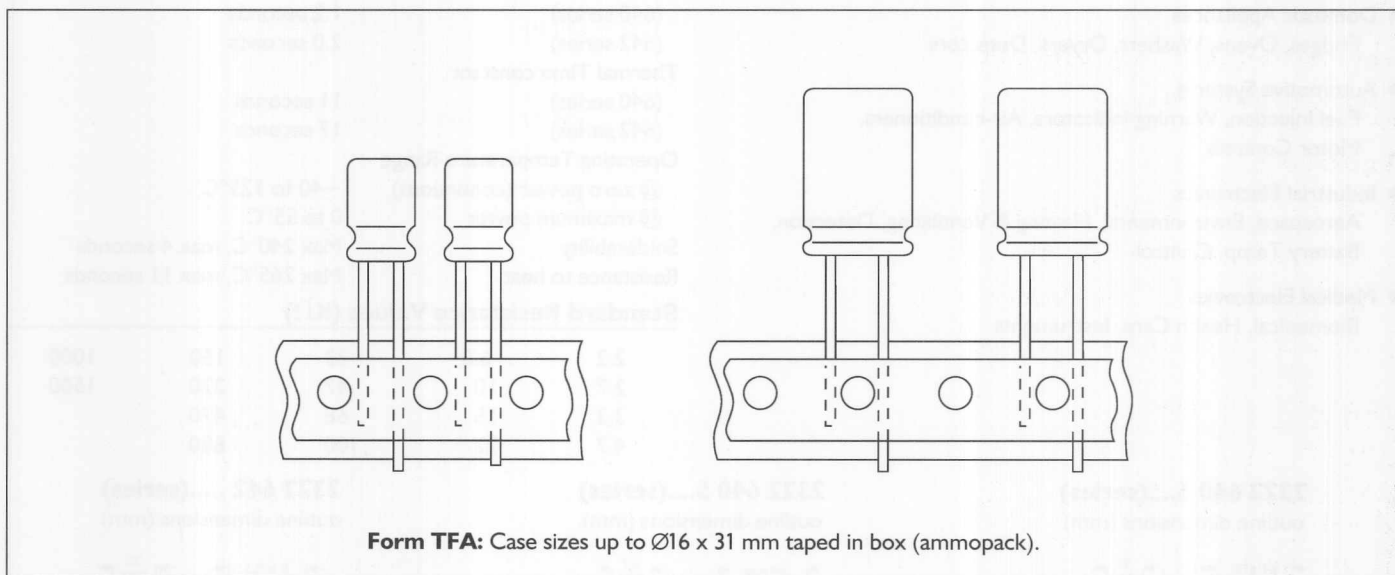
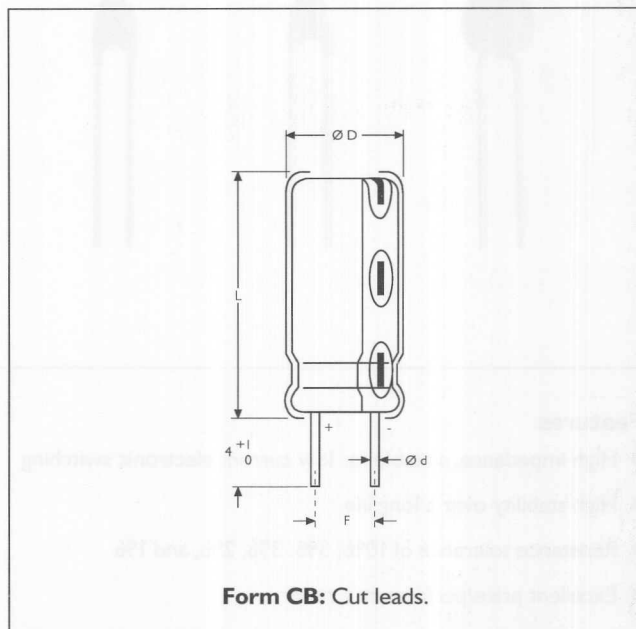
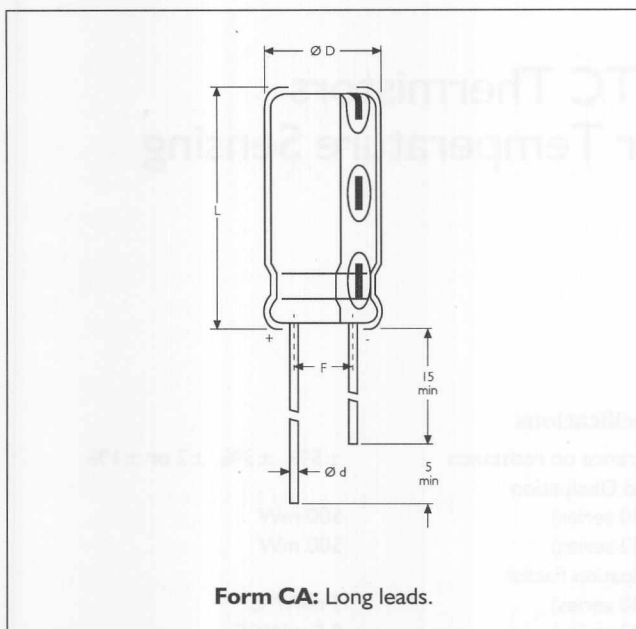
Quick Reference Data

Case sizes ($\varnothing D_{nom} \times L_{nom}$ in mm)	10 x 12 to 18 x 40 (18 x 35)
Rated capacitance range, C_R	22 to 4700 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	10 to 50 V
Category temperature range	-40 to +125°C
Endurance test at 125°C	1000 hours
Useful life at 125°C	1500 hours
Useful life at 40°C, 1.6 I_R applied	300,000 hours
Shelf life at 0 V, 125°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30,300, LL grade
Detail specification	similar to DIN 45910-T124 (without approval), former DIN 41259
Climatic category IEC 68 DIN 40040	40/125/56 GKF

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA01-A.

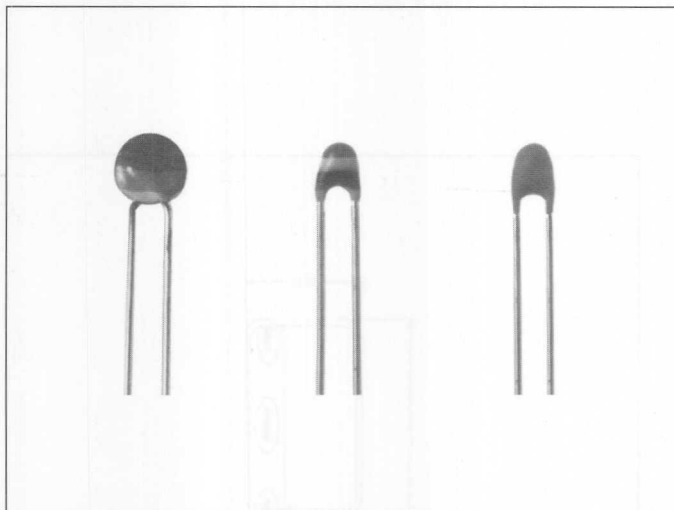
Packaging Styles and Dimensions

Dimensions in mm.



NTC Thermistors for Temperature Sensing

PHILIPS



NTC Thermistors for Temperature Sensing

Features

- High impedance, suitable for low current electronic switching
- High stability over a long life
- Resistance tolerance of 10%, 5%, 3%, 2%, and 1%
- Excellent price/performance ratio

Applications

- Domestic Appliances
Fridges, Ovens, Washers, Dryers, Detectors
- Automotive Systems
Fuel Injection, Warning Indicators, Air-conditioners, Motor Controls
- Industrial Electronics
Aerospace, Environmental, Heating & Ventilating, Detection, Battery Temp. Control
- Medical Electronics
Biomedical, Health Care, Instruments

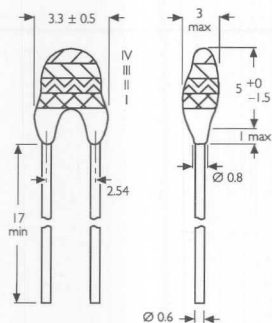
Specifications

Tolerance on resistance	$\pm 5\%$, $\pm 3\%$, ± 2 or $\pm 1\%$
Rated Dissipation	
(640 series)	500 mW
(642 series)	500 mW
Dissipation Factor	
(640 series)	7 mW/°C
(642 series)	8.5 mW/°C
Response Time	
(640 series)	1.2 seconds
(642 series)	2.0 seconds
Thermal Time constant	
(640 series)	11 seconds
(642 series)	17 seconds
Operating Temperature Range	
@ zero power (continuous)	-40 to 125°C
@ maximum power	0 to 55°C
Solderability	Max 240°C, max 4 seconds
Resistance to heat	Max 265°C, max 11 seconds

Standard Resistance Values (K Ω)

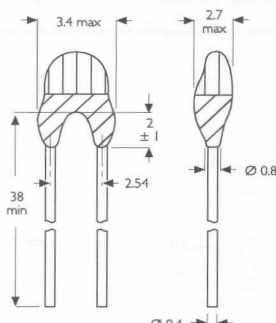
2.2	6.8	33	150	1000
2.7	10	47	220	1500
3.3	15	68	470	
4.7	22	100	680	

2322 640 6....(series)
outline dimensions (mm)



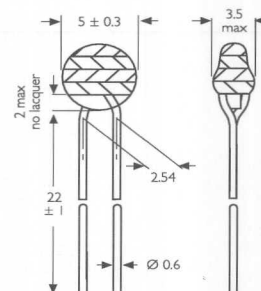
tinned copper leads

2322 640 5....(series)
outline dimensions (mm)



long tinned nickel leads
low heat conductivity
through leads

2322 642(series)
outline dimensions (mm)

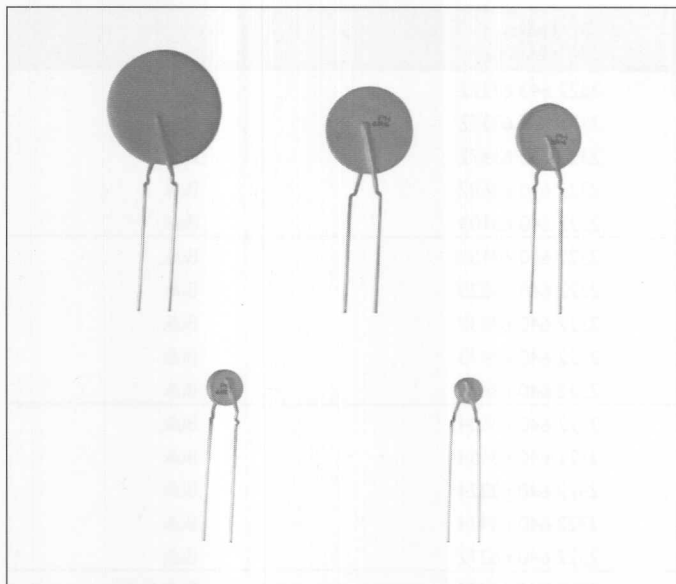


FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA02.

K Ohms @ +25°C	Tolerance	Philips Part Number	Packaging Type
2.2	5%	2322 640 63222	Bulk
3.3	5%	2322 640 63332	Bulk
4.7	5%	2322 640 63472	Bulk
6.8	5%	2322 640 63682	Bulk
10	5%	2322 640 63103	Bulk
15	5%	2322 640 63153	Bulk
22	5%	2322 640 63223	Bulk
33	5%	2322 640 63333	Bulk
47	5%	2322 640 63473	Bulk
68	5%	2322 640 63683	Bulk
100	5%	2322 640 63104	Bulk
150	5%	2322 640 63154	Bulk
220	5%	2322 640 63224	Bulk
470	5%	2322 640 63474	Bulk
2.7	3%	2322 640 66272	Bulk
4.7	3%	2322 640 66472	Bulk
10	3%	2322 640 66103	Bulk
47	3%	2322 640 66473	Bulk
100	3%	2322 640 66104	Bulk
470	3%	2322 640 66474	Bulk
10	2%	2322 640 54103	Bulk
47	2%	2322 640 54473	Bulk
100	2%	2322 640 54104	Bulk
10	1%	2322 640 55103	Bulk
47	1%	2322 640 55473	Bulk
100	1%	2322 640 55104	Bulk
3.3	10%	2322 642 62338	Bulk
4.7	10%	2322 642 62478	Bulk
22	10%	2322 642 62229	Bulk
33	10%	2322 642 62339	Bulk
47	10%	2322 642 62479	Bulk
100	10%	2322 642 62101	Bulk
150	10%	2322 642 62151	Bulk
220	10%	2322 642 62221	Bulk
470	10%	2322 642 62471	Bulk
680	10%	2322 642 62681	Bulk
1000	10%	2322 642 62102	Bulk
1500	10%	2322 642 62152	Bulk

PTC Thermistors for Overload Protection

PHILIPS



PTC Thermistors for Overload Protection

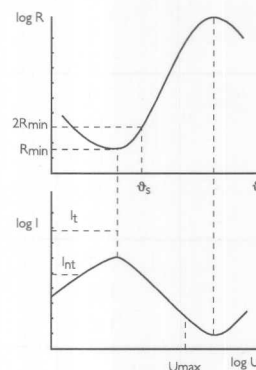
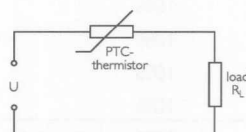
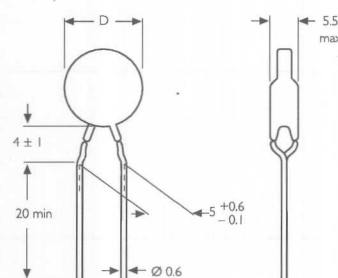
Features

- Small size with fully lacquered body
- UL approved
- No need to reset supply after overload
- Fast acting for repeatable safe protection
- Excellent long-term performance even under humid conditions
- Well defined protection levels

Applications

- Automotive Systems
Airflow Controls, Wiper Motors, Window Motors
- Consumer Electronics
Video Recorders, Lighting Ballast, CD Players, Stereo Equipment
- Domestic Appliances
Washers, Boilers, Coffee Grinders, Ice Makers, Hobby Tools
- Telecommunications
Line Protection, Regulation of Phones, Faxes and Modems
- General Industries
Transformers, Delay Lines, Measuring Equipment, Rechargeable Batteries, Power Supplies

Specifications

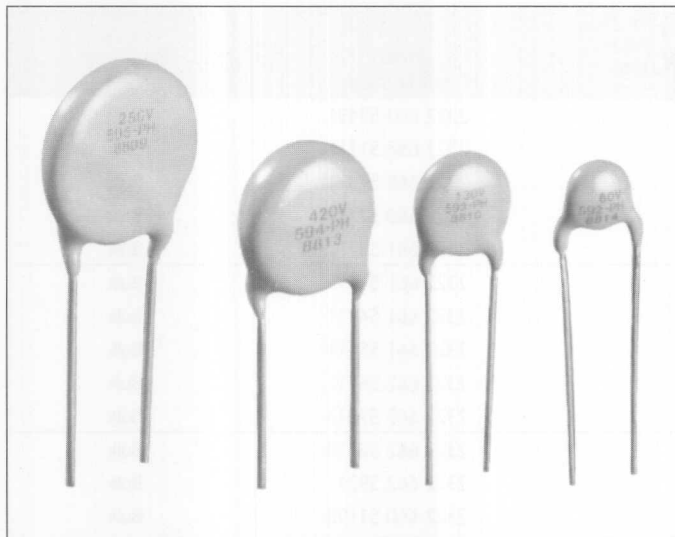


Solderability
Resistance to heat

Max 240°C, max 4 sec.
Max 265°C, max 11 sec.

Ohms Resistance Value @ +25°C	Voltage	Diameter (mm)	Philips Part Number	Packaging Type
50	60 DC	5	2322 660 59491	Bulk
25	60 DC	5	2322 660 51311	Bulk
13	30 DC	5	2322 660 51811	Bulk
6	30 DC	5	2322 660 52711	Bulk
5	30 DC	7	2322 661 53211	Bulk
3	30 DC	7	2322 661 54111	Bulk
2.5	30 DC	8.5	2322 661 54711	Bulk
1.9	30 DC	8.5	2322 661 55411	Bulk
1.7	30 DC	10.5	2322 662 56111	Bulk
1.3	30 DC	10.5	2322 662 57011	Bulk
1.1	30 DC	12.5	2322 662 58311	Bulk
0.9	30 DC	12.5	2322 662 59211	Bulk
3000	265 RMS	5	2322 660 51193	Bulk
1900	265 RMS	5	2322 660 51593	Bulk
1200	265 RMS	5	2322 660 51993	Bulk
500	265 RMS	5	2322 660 52893	Bulk
260	265 RMS	5	2322 660 53993	Bulk
120	265 RMS	5	2322 660 56393	Bulk
85	265 RMS	5	2322 660 57693	Bulk
56	265 RMS	5	2322 660 59593	Bulk
48	265 RMS	7	2322 661 51113	Bulk
29	265 RMS	7	2322 661 51413	Bulk
22	265 RMS	8.5	2322 661 51713	Bulk
18	265 RMS	8.5	2322 661 51913	Bulk
17	265 RMS	10.5	2322 662 52113	Bulk
12	265 RMS	10.5	2322 662 52513	Bulk
11	265 RMS	12.5	2322 662 52813	Bulk
8.4	265 RMS	12.5	2322 662 53213	Bulk

Varistors (ZnO)



Varistors (ZnO)

Features

- Very low transient response time
- Long operational life
- High-energy absorption capability
- Bulk, ammo-pack, or tape and reel packaging
- Wide voltage range - 14V to 550V RMS
- Approved to UL E-98144 Vol. 1, Sec. 1
- Many optional lead configurations

Marking

The varistors are marked with the following:

- Maximum continuous RMS voltage
- Series number - 592, 593, 594, 595
- Manufacturer's logo
- Date of manufacture

Standard Voltages (RMS)

Voltage	Code	Voltage	Code
40	400	250	251
50	500	275	271
60	600	300	301
75	750	320	321
95	950	385	381
130	131	420	421
140	141	460	461
150	151	510	511
175	171	550	551
230	231		

Specifications

Electrical

Max Continuous AC Voltage $V_{RMS\ max}$	14 to 460V	592/593 Series
	14 to 550V	591/595 Series
Max Continuous DC Voltage V_{max}	18 to 615V	592/593 Series
	18 to 745V	594/595 Series
Max Withstanding Surge Current I_{max}	100 to 400A	592 Series
	250 to 1200A	593 Series
	500 to 2500A	594 Series
	1000 to 4500A	595 Series
Max Energy E_{max}	0.5 to 21J	592 Series
	1.7 to 63J	593 Series
	4.3 to 98J	594 Series
	5.4 to 160J	595 Series
Voltage @ 1 mA V_{1mA}	22 to 750V	592/593 Series
	22 to 910V	594/595 Series
Max Power Dissipation P_{max}	100 mW	592 Series
	250 mW	593 Series
	400 mW	594 Series
	600 mW	595 Series

Mechanical

Body Diameter	7 mm	592 Series
	9 mm	593 Series
	13.5 mm	594 Series
	17 mm	595 Series
Lead Length (min)	27 mm	592/593 Series
	17 mm	594 Series
	16 mm	595 Series
Termination Tensile Strength	10N	

Environmental

Temperature Range at P_{max}	-40°C to +85°C
Soldering Heat	240°C max, duration 4 sec.
Resistance to Heat	265°C max, duration 11 sec.

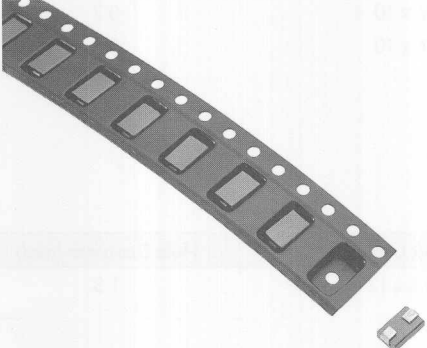
Voltage (RMS)	Max Power Dissipation	Philips Part Number	Packaging Type
40	100 mW	2322 592 54006	Bulk
50	100 mW	2322 592 55006	Bulk
60	100 mW	2322 592 56006	Bulk
75	100 mW	2322 592 57506	Bulk
95	100 mW	2322 592 59506	Bulk
130	100 mW	2322 592 51316	Bulk
140	100 mW	2322 592 51416	Bulk
150	100 mW	2322 592 51516	Bulk
175	100 mW	2322 592 51716	Bulk
230	100 mW	2322 592 52316	Bulk
250	100 mW	2322 592 52516	Bulk
275	100 mW	2322 592 52716	Bulk
300	100 mW	2322 592 53016	Bulk
320	100 mW	2322 592 53216	Bulk
385	100 mW	2322 592 53816	Bulk
420	100 mW	2322 592 54216	Bulk
460	100 mW	2322 592 54616	Bulk
40	250 mW	2322 593 54006	Bulk
50	250 mW	2322 593 55006	Bulk
60	250 mW	2322 593 56006	Bulk
75	250 mW	2322 593 57506	Bulk
95	250 mW	2322 593 59506	Bulk
130	250 mW	2322 593 51316	Bulk
140	250 mW	2322 593 51416	Bulk
150	250 mW	2322 593 51516	Bulk
175	250 mW	2322 593 51716	Bulk
230	250 mW	2322 593 52316	Bulk
250	250 mW	2322 593 52516	Bulk
275	250 mW	2322 593 52716	Bulk
300	250 mW	2322 593 53016	Bulk
320	250 mW	2322 593 53216	Bulk
385	250 mW	2322 593 53816	Bulk
420	250 mW	2322 593 54216	Bulk
460	250 mW	2322 593 54616	Bulk
40	400 mW	2322 594 54006	Bulk
50	400 mW	2322 594 55006	Bulk
60	400 mW	2322 594 56006	Bulk
75	400 mW	2322 594 57506	Bulk
95	400 mW	2322 594 59506	Bulk
130	400 mW	2322 594 51316	Bulk
140	400 mW	2322 594 51416	Bulk
150	400 mW	2322 594 51516	Bulk
175	400 mW	2322 594 51716	Bulk
230	400 mW	2322 594 52316	Bulk
250	400 mW	2322 594 52516	Bulk
275	400 mW	2322 594 52716	Bulk
300	400 mW	2322 594 53016	Bulk
320	400 mW	2322 594 53216	Bulk
385	400 mW	2322 594 53816	Bulk
420	400 mW	2322 594 54216	Bulk

Varistors (ZnO)

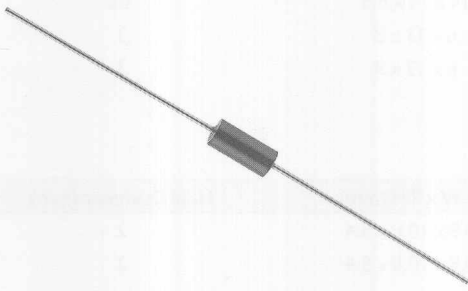
PHILIPS

Voltage (RMS)	Max Power Dissipation	Philips Part Number	Packaging Type
460	400 mW	2322 594 54616	Bulk
510	400 mW	2322 594 55116	Bulk
550	400 mW	2322 594 55516	Bulk
40	600 mW	2322 595 54006	Bulk
50	600 mW	2322 595 55006	Bulk
60	600 mW	2322 595 56006	Bulk
75	600 mW	2322 595 57506	Bulk
95	600 mW	2322 595 59506	Bulk
130	600 mW	2322 595 51316	Bulk
140	600 mW	2322 595 51416	Bulk
150	600 mW	2322 595 51516	Bulk
175	600 mW	2322 595 51716	Bulk
230	600 mW	2322 595 52316	Bulk
250	600 mW	2322 595 52516	Bulk
275	600 mW	2322 595 52716	Bulk
300	600 mW	2322 595 53016	Bulk
320	600 mW	2322 595 53216	Bulk
385	600 mW	2322 595 53816	Bulk
420	600 mW	2322 595 54216	Bulk
460	600 mW	2322 595 54616	Bulk
510	600 mW	2322 595 55116	Bulk
550	600 mW	2322 595 55516	Bulk

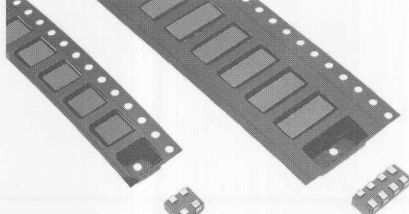
FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK PA02.

Surface - Mount Beads	Part Description	Dimensions	Min. Impedance Ω at Frequencies (MHz)*					
		W x H x L (mm)	1	3	10	25	100	300
	BDS3/3/4.6-3S1	3.05 x 3 x 4.6		28	36	28		
	BDS3/3/8.9-3S1	3.05 x 3 x 8.9		44	64	44		
	BDS3/3/4.6-4S2	3.05 x 3 x 4.6				24	40	44
	BDS3/3/8.9-4S2	3.05 x 3 x 8.9				52	80	88
	BDS4.6/3/8.9-4S2	4.6 x 3 x 8.9				52	80	88
	BDS3/1.8/5.3-3S1	3 x 1.8 x 5.3		22		26	20	
	BDS3/1.8/5.3-4S2	3 x 1.8 x 5.3				20	30	36

Features: Low Magnetic Leak Inductance, Excellent Solderability, Low DC Resistance, Tape and Reel Packaging

Beads on Wire	Part Description	Dimensions	Min. Impedance Ω at Frequencies (MHz)*						
		OD x L (mm)	1	3	10	30	100	300	
	BDW3.5/3.3-3E2	3.5 x 3.25			30				
	BDW3.5/7.6-3E2	3.5 x 7.6			52				
	BDW5/10-3S1	5.1 x 10	70	125	128	90	70	50	
	BDW3.5/3.3-3S2	3.5 x 3.25					34		
	BDW3.5/3.3-4A1	3.5 x 3.25					35		
	BDW3.5/3.3-4S2	3.5 x 3.25	3	10	19	29	46	52	
	BDW3.5/4.5-4S2	3.5 x 4.5	4	13	26	39	60	70	
	BDW3.5/6-4S2	3.5 x 6	5	17	35	53	80	95	
	BDW3.5/6.7-4S2	3.5 x 6.7	6	20	39	59	88	105	
	BDW3.5/7.6-4S2	3.5 x 7.6	7	22	44	67	105	120	
	BDW3.5/8.9-4S2	3.5 x 8.9	8	26	52	78	117	140	
	BDW3.5/3.3-4S3	3.5 x 3.25						54**	

Features: Guaranteed Minimum Impedance, Machine Placeable, Tape and Reel Packaging

	SMD Common Mode Chokes	Part Description	Dimensions	Min. Impedance Ω at Frequencies (MHz)*			
				W x H x L (mm)	30	100	300
		CMS2-5.6/3/4.8-4S2	5.6 x 3 x 4.75		18	32	40
		CMS4-11/3/4.8-4S2	10.8 x 3 x 4.75	(Inner Channel)	11	18	34
				(Outer Channel)	14	24	40

*Typical impedance values are approximately 25% higher.

**Measured at 250 MHz

Part Description Example:

$$\frac{\text{BDS}}{} - \frac{3/3/4.6}{\text{Dimensions}} = \frac{4S2}{\text{Material}}$$

BDS - Designates BeaD, Surface mount

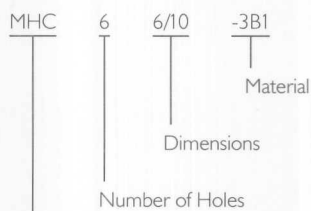
BDW - Designates Bead on Wire

CMS - Designates Common Mode choke Surface mount

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK MA01.

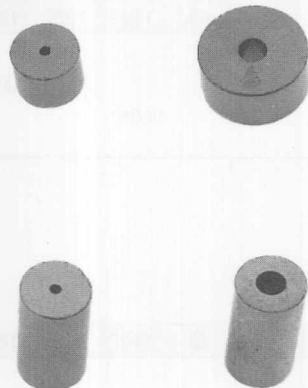
Multi-Hole Beads	Part Description	Dimensions	
		OD x L (mm)	Hole Diameter (mm)
	MHC6-6/10-3B1	6 x 10	0.7
	MHC6-6/10-4B1	6 x 10	0.7
	MHC2-5.6/12-4B1	5.6 x 12	1.5
	MHB2-14/8.3/8-4B1	8 x 14 x 8.5	3.5
	MHB2-14/8.3/14-4B1	14 x 14 x 8.5	3.5
	MHB2-13/8/6-4B1	6 x 13 x 8	3
	MHB2-13/8/6-3C85	6 x 13 x 8	3
	MHR2-11/5.4/11-4A11	10.9 x 10.8 x 5.4	2
	MHR2-11/5.4/11-3C85	10.9 x 10.8 x 5.4	2
	MHR6-6.1/4/10-3B1	10 x 6.1 x 4	0.7

Part Description Example:



MHC - Designates Multi-Hole core Circular
 MHB - Designates Multi-Hole core Binocular
 MHR - Designates Multi-Hole core Rectangular

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK MA01.

Beads	Part Description	Dimensions	Min. Impedance Ω at Frequencies (MHz)*						
		OD x ID x L (mm)	1	3	10	30	100	300	
	BD3/0.7/4-3S1	3 x 0.7 x 4	19	38	39	31	26	23	
	BD3/0.7/10-3S1	3 x 0.7 x 10	58	95	97	77	66	58	
	BD3/1/4-3S1	3 x .95 x 4	14	29	30	24	20	18	
	BD3/1/10-3S1	3 x .95 x 10	33	72	73	59	50	44	
	BD5/0.8/4-3S1	5 x .7 x 4	27	52	53	42	36	32	
	BD5/0.8/10-3S1	5 x .7 x 10	70	125	128	90	70	50	
	BD5/1.5/4-3S1	5 x 1.5 x 4	15	25	32	26	22	20	
	BD5/1.5/10-3S1	5 x 1.5 x 10	40	72	80	64	55	48	
	BD5/2/4-3S1	5 x 2 x 4	10	18	24	20	17	15	
	BD5/2/10-3S1	5 x 2 x 10	29	51	61	49	42	37	
	BD3.5/1.2/3.3-3E2A	3.5 x 1.2 x 3.3	18	28	37	34	26	23	
	BD3.5/1.2/3.3-3B1	3.5 x 1.2 x 3.3	3	12	22	33	38	39	
	BD3.5/1.2/3.3-4A1	3.5 x 1.2 x 3.3	4	10	16	24	31	34	
	BD3.5/1.2/3.3-4A6	3.5 x 1.2 x 3.3	3	10	18	28	37	39	
	BD3.5/1.2/3.3-4B1	3.5 x 1.2 x 3.3	1	3	12	22	33	44	
	BD3.5/1.5/3.3-3B1	3.5 x 1.5 x 3.3	2	7	14	20	28	38	
	BD3/0.7/4-4S2	3 x 0.7 x 4	2	8	22	32	50	54	
	BD5/0.8/4-4S2	5 x 0.7 x 4	5	15	30	44	68	77	
	BD3/0.8/10-4S2	3 x 0.7 x 10	9	30	55	81	125	135	
	BD5/0.8/10-4S2	5 x 0.7 x 10	12	40	75	110	170	190	
	BD3/1/4-4S2	3 x 0.95 x 4	3	9	18	25	38	43	
	BD3/1/10-4S2	3 x 0.95 x 10	7	23	43	61	95	107	
	BD5/1.5/4-4S2	5 x 1.5 x 4	3	10	20	27	41	47	
	BD8/1.5/4-4S2	8 x 1.5 x 4	4	14	27	38	57	65	
	BD5/1.5/10-4S2	5 x 1.5 x 10	7	25	45	68	104	116	
	BD8/1.5/10-4S2	8 x 1.5 x 10	10	34	70	93	145	161	
	BD5/2/4-4S2	5 x 2 x 4	2	8	15	20	32	36	
	BD8/2/4-4S2	8 x 2 x 4	4	40	20	31	49	55	
	BD5/2/10-4S2	5 x 2 x 10	6	15	30	51	80	89	
	BD8/2/10-4S2	8 x 2 x 10	9	28	45	77	121	134	
	BD8/3/4-4S2	8 x 3 x 4	2	8	15	22	34	38	
	BD8/3/10-4S2	8 x 3 x 10	6	20	40	55	85	95	

*Impedance measurements based upon single turn. Typical impedance values are approximately 25% higher.

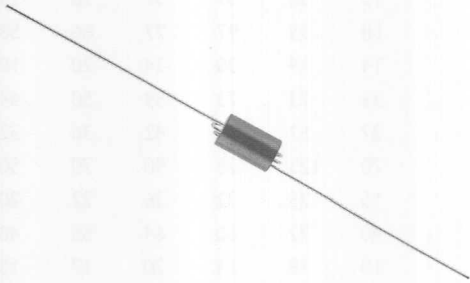
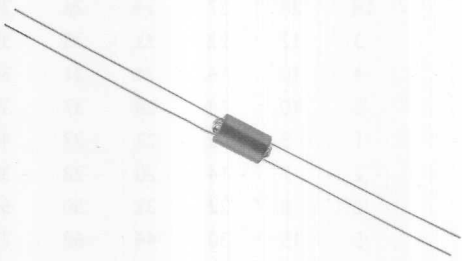
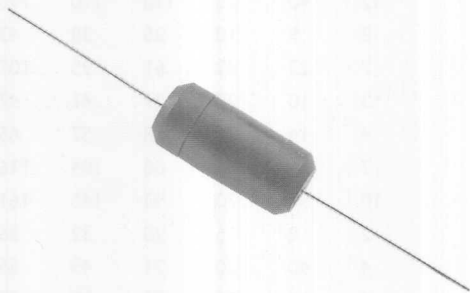


Part Description Example:

BD 5/0.7/4 - 4S2

Material

Dimensions

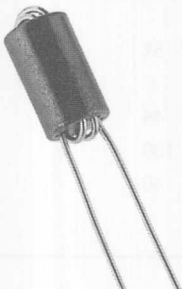

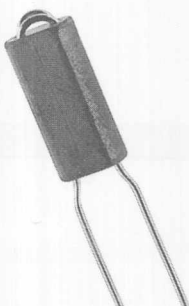
Designates Bead

Wide-Band Chokes		Part Description	Dimensions	Min. Impedance Ω at Frequencies (MHz)**						
		No. of Turns	L x D mm (max)	50	63	110	120	180	250	
	1.5	WBC1.5/A-3B1	10.5 x 6.5				300			
	2.5	WBC2.5/A-3B1	10.5 x 6.5	600						
	2.5	WBC2.5/SA-3B1	10.5 x 6.5	600						
	2.5	WBC2.5/A-4A15	10.5 x 6.5	640				656		
	1.5	WBC1.5/A-4B1	10.5 x 6.5							350
	2.5	WBC2.5/A-4B1	10.5 x 6.5					700		
	2.5	WBC2.5/SA-4B1	10.5 x 6.5					700		
	Features: Standard Style, Bulk Packaging									
		No. of Turns	L x D mm (max)	50	63	110	120	180	250	
	2 x 1.5	WBC1.5/1.5/A-3B1	10.5 x 6.5	700*						
	2 x 1.5	WBC1.5/1.5/A-4A15	10.5 x 6.5	800*				800*		
	2 x 1.5	WBC1.5/1.5/A-4B1	10.5 x 6.5			800*				
	Features: Two Windings, Bulk Packaging									
		No. of Turns	L x D mm (max)	50	63	110	120	180	250	
	2.5	WBC2.5/EA-3B1	15 x 8.5	600						
	2.5	WBC2.5/EAT-3B1	15 x 8.5	600						
	2.5	WBC2.5/EA-4B1	15 x 8.5					700		
	2.5	WBC2.5/EAT-4B1	15 x 8.5					700		
	Features: Plastic Insulator to Prevent Shorting, Bulk Packaging, or Tape and Reel									
		No. of Turns	L x D mm (max)	50	63	110	120	180	250	
	2.5	WBC2.5/R-3B1	10.5 x 6.5	600						
	2.5	WBC2.5/IR-3B1	10.5 x 6.5	600						
	2.5	WBC2.5/R-4B1	10.5 x 6.5					700		
	2.5	WBC2.5/IR-4B1	10.5 x 6.5					700		
	Features: Leads are Cut and Formed for PCB Mounting, Bulk Packaging, with or without Insulated Wire									
		No. of Turns	L x D mm (max)	50	63	110	120	180	250	
	2.5	WBC2.5/SP-3B1	10.5 x 6.5	600						
	2.5	WBC2.5/SP-4B1	10.5 x 6.5					700		
	Features: Insulating Support Plate, Bulk Packaging									

*Measured with both coils in series.

**Typical impedance values are approximately 25% higher.

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK MA01.

Wide-Band Chokes		Part Description	Dimensions	Min. Impedance Ω at Frequencies (MHz)**						
	No. of Turns		L x D mm (max)	50	63	110	120	180	250	
	3	WBC3/R-3B1	10.5 x 6.5		650					
	3	WBC3/R-4A15	10.5 x 6.5	800					800	
	3	WBC3/R-4B1	10.5 x 6.5			800				
	Features: Radial Configuration, Bulk Packaging									
	No. of Turns		L x D mm (max)	50	63	110	120	180	250	
	3	WBC3/ER-3B1	15 x 8.5		650					
	3	WBC3/ERT-3B1	15 x 8.5		650					
	3	WBC3/ER-4B1	15 x 8.5			800				
	3	WBC3/ERT-4B1	15 x 8.5			800				
Features: Radial Configuration, Insulated Sleeve, Bulk Packaging, or Tape and Reel										
	No. of Turns		L x D mm (max)	50	63	110	120	180	250	
	2	WBC2/R-4A15	12.3 x 6	584					600	
	2	WBC2/RT-4A15	12.3 x 6	584					600	
Features: Radial Configuration, Recessed Winding on Bottom, Flat Sides for Easy Handling, Available T&R or Bulk										

*Typical impedance values are approximately 25% higher.

Applications: Telecommunication, Electronic Data Processing, Consumer Electronics, Automotive, Domestic Appliances

Part Description Example:

WBC	2.5	/EAT	-4B1
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Material

Configuration:

A = Axial Lead

E = Encapsulated

I = Insulated Wire

R = Radial Leads

S = Sleeved Wire-loop

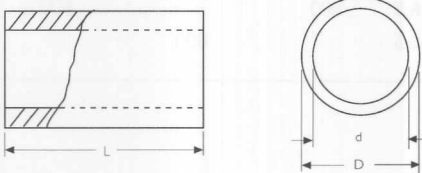
SP = Support Plate

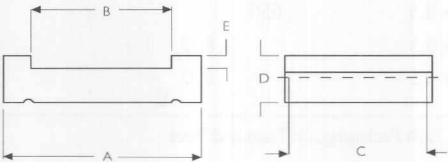
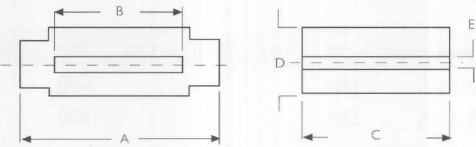
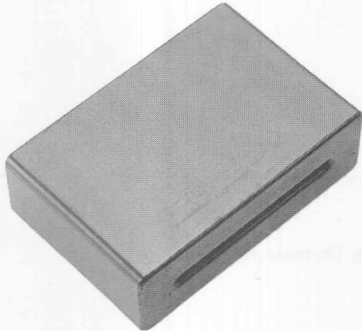
T = Tape & Reeled

Number of Turns

Designates Wide Band Choke

FOR ADDITIONAL INFORMATION REFER TO DATA HANDBOOK MA01.

Coaxial Cable Shielding	Part Description	Dimensions		Min. Impedance Ω at Frequencies (MHz)*		
		OD x ID x L (mm)		25	30	100
	CST8.3/3.5/10-3S4	8.3 x 3.5 x 10			59	77
	CST9.5/5.1/14.5-3S4	9.5 x 5.1 x 14.5		53		88
	CST8.5/3/10-3S4	8 x 5.3 x 10			29	40
	CST17.5/9.5/12.7-3S4	17.45 x 9.53 x 12.7		44		77
	CST17.5/9.5/28.5-3S4	17.45 x 9.53 x 28.5		100		160
	CST18/10.6/11.5-3S4	18 x 10.6 x 11.5		40		60

Flat Cable Shielding	Part Description	Dimensions (See Drawing)					Min. Impedance Ω at Freq. (MHz)*	
		A	B	C	D	E	25	100
 New Product	CSU76/6.4/13-3S4	76.2	65.3	12.7	6.35	0.85	29	88
	CSU76/6.4/15-3S4	76.2	65.3	15	6.35	0.85	40	127
	CSU76/6.4/28.6-3S4	76.2	65.3	28.5	6.35	0.85	56	188
	CSF38.5/12/25-3S4-S	38.5	26.8	25.4	12.1	1.9	79	158
	CSF38.1/12/25-3S4	38.1	26.7	25.4	12.1	1.9	88	172
		A	B	C	D	E	25	100

*Typical impedance values are approximately 25% higher.

Part Description Example:

CST 3/3/4.6
 Dimensions

CST - Designates Cable Shield Tubular
 CSU - Designates Cable Shield U-shaped
 CSF - Designates Cable Shield Flat